

APPENDIX B
RISK ASSESSMENT

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Appendix B-1
Human Health Risk Assessment RAGs D Tables

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Future	Soil	Lockwood Avenue Property	Recreational Visitor	Adult/Child	Ingestion	Quant	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
					Dermal	Quant	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact.
		Commercial Worker		Adult	Inhalation	Qual	A foreseeable future use of this site is as a hotel/marina complex. Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
							Commercial workers are expected to be exposed to soil through inadvertent contact.
Current/Future	Soil	200 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		230 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		250 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.

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Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		280 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		300 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		326 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		Lot Behind 326 Ferry Blvd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		Vacant Lot at Housatonic Ave.	Residents	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	Site is zoned for residential land-use. Future residents (adults and children) are expected to be exposed to soil through inadvertent contact. Site is zoned for residential land-use. Future residents (adults and children) are expected to be exposed to soil through inadvertent contact. Future residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.

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Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		576 East Broadway	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		600 East Broadway	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Vacant DOT Lot abutting I-95	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Connecticut Right-of-Way	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.
		Connecticut Right-of-Way-Residential Portion	Residents	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	A portion of the property is an easement allowing access to a residential property. Residents (adults and children) are expected to be exposed to soil through inadvertent contact. A portion of the property is an easement allowing access to a residential property. Residents (adults and children) are expected to be exposed to soil through inadvertent contact. Residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparsion of soil concentrations to SSLs for inhalation will be performed.

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Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		304 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		340 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		380 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		250 East Main St.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		DPW Lot	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.

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Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		251 East Main St..	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		Beacon Point Area	Recreational Visitor	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact. Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		1 Beacon Point Rd.	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		Airport Property North of Marine Basin	Commercial Worker	Adult	Ingestion Dermal Inhalation	Quant Quant Qual	Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers are expected to be exposed to soil through inadvertent contact. Commercial workers may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.
		Wooster Park	Recreational Visitor	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact. Recreational visitors are expected to visit the Site for recreational purposes. Adults and children are expected to be exposed to soil through inadvertent contact. Recreational visitors may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.

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REMEDIAL INVESTIGATION
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Scenario Timeframe	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
		Third Avenue Property	Residents	Adult/Child	Ingestion Dermal Inhalation	Quant Quant Qual	The site is a residence. Residents (adults and children) are expected to be exposed to soil through inadvertent contact. The site is a residence. Residents (adults and children) are expected to be exposed to soil through inadvertent contact. Residents (adults and children) may be exposed to soil through inhalation of fugitive dust. A qualitative comparison of soil concentrations to SSLs for inhalation will be performed.

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	13		27		µg/kg	OU3-B2-SB03-0608-MAX	2/6	14 - 28	27			2700000 nc		NO	BSL
67-64-1	Acetone	62		88		µg/kg	RM-SD-DB10-03-MAX	2/6	18 - 280	88			600000 nc		NO	BSL
75-15-0	Carbon Disulfide	20		31		µg/kg	RM-SD-DB10-03-MAX	2/6	14 - 28	31			72000 nc	720000	NO	BSL
105-67-9	2,4-Dimethylphenol	130	J	4100		µg/kg	OU3-B2-SB09-0204	3/14	450 - 4000	4100			1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	38		73	J	µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	73			19000 nc		NO	BSL
95-48-7	2-Methylphenol	680		680		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	680			3100000 nc		NO	BSL
106-44-5	4-Methylphenol	35		1400		µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	1400			310000 nc		NO	BSL
83-32-9	Acenaphthene	110	J	410		µg/kg	OU3-B2-SB03-0608-MAX	4/14	450 - 4000	410			2900000 nc		NO	BSL
208-96-8	Acenaphthylene	28	J	2700		µg/kg	RM-SD-DB10-03-MAX	12/14	630 - 630	2700			19000 nc		NO	BSL
120-12-7	Anthracene	33	J	1900		µg/kg	OU3-B2-SB09-0204	12/14	490 - 630	1900			10000000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	76	J	5800	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	5800			2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	60	J	5200		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5200			210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	94	J	5000		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5000			2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	23	J	5300		µg/kg	OU3-B2-SB06-0204	8/14	600 - 1800	5300			2900000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	92	J	4600		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4600			21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	48	J	10000	*	µg/kg	OU3-B2-SB09-0204	12/14	620 - 630	10000			120000 ca*		NO	BSL
86-74-8	Carbazole	30	J	450	J	µg/kg	OU3-B2-SB06-0204	10/14	490 - 630	450			86000 ca		NO	BSL
218-01-9	Chrysene	120	J	6900	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	6900			210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	32	J	680		µg/kg	RM-SD-DB10-03-MAX	11/14	630 - 4000	680			210 ca		YES	ASL
132-64-9	Dibenzofuran	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410			310000 nc		NO	BSL
84-66-2	Diethylphthalate	30		30		µg/kg	RM-SD-DB10-03-MAX	1/14	450 - 4000	30			10000000 nc		NO	BSL
131-11-3	Dimethylphthalate	2900		2900		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	2900			10000000 max		NO	BSL
84-74-2	Di-n-Butylphthalate	150		410		µg/kg	OU3-B2-SB03-0608-MAX	2/14	450 - 4000	410			6200000 nc		NO	BSL

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAl INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
117-84-0	Di-n-octylphthalate	120	J	120	J	µg/kg	OU3-B2-SB09-0406	1/14	450 - 4000	120		2500000 nc		NO	BSL	
206-44-0	Fluoranthene	180	J	14000	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	14000		2200000 nc		NO	BSL	
86-73-7	Fluorene	45	J	370		µg/kg	RM-SD-DB10-03-MAX	8/14	450 - 630	370		2600000 nc		NO	BSL	
193-39-5	Indeno(1,2,3-cd)pyrene	43	J	4500		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4500		2100 ca		YES	ASL	
91-20-3	Naphthalene	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		19000 nc	170000	NO	BSL	
86-30-6	N-Nitroso-diphenylamine	410	J	410	J	µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	410		350000 ca		NO	BSL	
87-86-5	Pentachlorophenol	200	J	200	J	µg/kg	OU3-B2-SB02-0406-MAX	1/14	1100 - 10000	200		9000 ca		NO	BSL	
85-01-8	Phenanthrene	67	J	4900		µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	4900		10000000 nc		NO	BSL	
108-95-2	Phenol	1200		1200		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	1200		10000000 nc		NO	BSL	
129-00-0	Pyrene	170	J	8400		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	8400		2900000 nc		NO	BSL	
TOTPAH	Total PAH	1186		36080		µg/kg	RM-SD-DB10-03-MAX	4/4	0 - 0	36080				NO	NTX	
72-54-8	4,4'-DDD	22		130		µg/kg	OU3-B2-SB06-0204	3/15	3.3 - 430	130	4.6	10000 ca		NO	BSL	
72-55-9	4,4'-DDE	0.18	J	9.4		µg/kg	RM-SD-DB10-03-MAX	4/15	5.4 - 430	9.4	16.7	7000 ca		NO	BSL	
309-00-2	Aldrin	0.11	J	0.47	J	µg/kg	RM-SD-DB07-03	2/15	1.7 - 220	0.47	2.41	100 ca*	3000	NO	BSL	
319-84-6	alpha-BHC	0.14	J	0.26		µg/kg	RM-SD-DB10-03-MAX	3/15	1.7 - 220	0.26	2.41	360 ca	700	NO	BSL	
5103-71-9	alpha-Chlordane	0.56		1200		µg/kg	OU3-B2-SB02-0406-MAX	9/15	3.2 - 4.7	1200	4.88	6500 ca	72000	NO	BSL	
AROCLORTOTC	Aroclor, Total (Conservative)	324		96550		µg/kg	OU3-B2-SB02-0406-MAX	16/18	66 - 120	96550		1000 ca		YES	ASL	
12672-29-6	Aroclor-1248	280		1400		µg/kg	OU3-B2-SB09-0204	2/18	33 - 4300	1400	46.1	740 ca		YES	ASL	
11097-69-1	Aroclor-1254	250		77000	*	µg/kg	OU3-B2-SB02-0406-MAX	4/18	33 - 290	77000	46.1	740 ca**		YES	ASL	
37324-23-5	Aroclor-1262	200	J	4400	*J	µg/kg	OU3-B2-SB09-0204	5/18	33 - 4400	4400	36.8	1000 ca		YES	ASL	
11100-14-4	Aroclor-1268	50	J	7200	*	µg/kg	OU3-B2-SB09-0204	14/18	54 - 4400	7200	46.1	1000 ca		YES	ASL	
60-57-1	Dieldrin	2	J	2600	J	µg/kg	OU3-B2-SB02-0406-MAX	8/15	6.1 - 17	2600	13.1	110 ca	1000	YES	ASL	
1031-07-8	Endosulfan Sulfate	16		16		µg/kg	OU3-B2-SB06-0204	1/15	3.3 - 430	16	4.69	370000 nc		NO	BSL	

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7421-93-4	Endrin Aldehyde	13		49		µg/kg	OU3-B2-SB09-0204	2/15	3.3 - 430	49	4.56	18000	nc		<u>NO</u>	<u>BSL</u>
5103-74-2	gamma-Chlordane	0.67		17		µg/kg	RM-SD-DB03-03	5/15	2.8 - 220	17	2.67	6500	ca	72000	<u>NO</u>	<u>BSL</u>
1024-57-3	Heptachlor Epoxide	0.11	J	0.41	J	µg/kg	RM-SD-DB01-03	3/15	1.7 - 220	0.41	2.33	190	ca*	5000	<u>NO</u>	<u>BSL</u>
TE	Toxicity Equivalency	0.0032	J	0.350845	J	µg/kg	RM-SD-DB01-03	9/9	0 - 0	0.350845		0.027	ca		<u>YES</u>	<u>ASL</u>
7429-90-5	Aluminum	7110		38900	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	38900	12900				<u>NO</u>	<u>EPA-I</u>
7440-36-0	Antimony	17.8	J	51.4		mg/kg	OU3-B2-SB05-0608	3/6	8.8 - 13.8	51.4	2.86	41	nc		<u>YES</u>	<u>ASL</u>
7440-38-2	Arsenic	2.6		56		mg/kg	OU3-B2-SB05-0608	14/15	0.82 - 0.82	56	5.67	1.6	ca*	770	<u>YES</u>	<u>ASL</u>
7440-39-3	Barium	14.8		3770	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	3770	57.5	6700	nc	710000	<u>NO</u>	<u>BSL</u>
7440-41-7	Beryllium	0.31		5.6		mg/kg	OU3-B2-SB05-0608	10/15	0.51 - 1.9	5.6	0.719	1900	nc	1400	<u>NO</u>	<u>BSL</u>
7440-43-9	Cadmium	0.22		149		mg/kg	OU3-B2-SB05-0608	13/15	0.8 - 0.85	149	0.397	45	nc	1800	<u>YES</u>	<u>ASL</u>
7440-70-2	Calcium	1830	J	37000	J	mg/kg	OU3-B2-SB05-0608	10/15	1410 - 2420	37000	1600				<u>NO</u>	<u>NUT</u>
7440-47-3	Chromium	12.4	J	3270	J	mg/kg	OU3-B2-SB05-0608	14/15	146 - 146	3270	17	64	ca	280	<u>YES</u>	<u>ASL</u>
7440-48-4	Cobalt	4.1		23.8		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	23.8	6.35				<u>NO</u>	<u>EPA-I</u>
7440-50-8	Copper	28.3	J	7870	J	mg/kg	OU3-B2-SB05-0608	32/50	300 - 300	7870	28.8				<u>NO</u>	<u>EPA-I</u>
7439-89-6	Iron	12900		68100	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	68100	16000				<u>NO</u>	<u>EPA-I</u>
7439-92-1	Lead	14	J	10600	J	mg/kg	OU3-B2-SB05-0608	45/57	100 - 100	10600	80.8	750	nc		<u>YES</u>	<u>ASL</u>
7439-95-4	Magnesium	3160		31600		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	31600	3250				<u>NO</u>	<u>NUT</u>
7439-96-5	Manganese	122	J	722	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	722	306	1900	nc		<u>NO</u>	<u>BSL</u>
7439-97-6	Mercury	0.11	J	2.3		mg/kg	RM-SD-DB10-03-MAX	11/15	0.06 - 0.14	2.3	0.111	31	nc	10	<u>NO</u>	<u>BSL</u>
7440-02-0	Nickel	7.5		457	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	457	12.5	2000	nc	14000	<u>NO</u>	<u>BSL</u>
7440-09-7	Potassium	1460		21700	J	mg/kg	OU3-B2-SB05-0608	11/15	2070 - 3430	21700	961				<u>NO</u>	<u>NUT</u>
7782-49-2	Selenium	1		1		mg/kg	OU3-B2-SB09-0406	1/15	0.64 - 5	1	0.499	510	nc		<u>NO</u>	<u>BSL</u>
7440-22-4	Silver	0.39		2.9		mg/kg	OU3-B2-SB09-0204	7/15	0.75 - 2.2	2.9	0.508	510	nc		<u>NO</u>	<u>BSL</u>

TABLE 2.1A
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOCKWOOD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration	Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	(5)	Rationale for Contaminant Deletion or Selection
7440-23-5	Sodium	866		187000	*	mg/kg	OU3-B2-SB05-0608	13/15	214 - 790	187000	76.4					<u>NO</u>	<u>NUT</u>		
7440-28-0	Thallium	2.2		8.4		mg/kg	OU3-B2-SB05-0608	2/15	0.91 - 8.4	8.4	0.368	6.7	nc			<u>YES</u>	<u>ASL</u>		
7440-62-2	Vanadium	14.6		224		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	224	34.2	720	nc			<u>NO</u>	<u>BSL</u>		
7440-66-6	Zinc	34.4	J	5930		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	5930	112	10000	nc			<u>NO</u>	<u>BSL</u>		
ASBESTOS	Asbestos	1		50		%	DBL-008, DBL-009	41/52	0.1 - 0.1	50				1		<u>YES</u>	<u>ASL</u>		

Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

Background values are the average of off-site background concentrations.

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

an HI of 0.1

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

* = From dilution analysis or estimated maximum possible concentration

Frequent Detection (FD)

= Possible false positive due to interference

Toxicity Information Available (TX)

ca = Carcinogenic

Above Screening Levels (ASL)

ca* = where nc < 100X ca

Deletion Reason: Infrequent Detection (IFD)

ca** = where nc < 10X ca

Background Levels (BKG)

nc = Non-Carcinogenic

No Toxicity Information (NTX)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Essential Nutrient (NUT)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

of approved toxicity criteria

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	Minimum Concentration	(1) Qualifier	Maximum Concentration	(1) Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	13		27		µg/kg	OU3-B2-SB03-0608-MAX	2/6	14 - 28	27		730000	nc			NO	BSL	
67-64-1	Acetone	62		88		µg/kg	RM-SD-DB10-03-MAX	2/6	18 - 280	88		160000	nc			NO	BSL	
75-15-0	Carbon Disulfide	20		31		µg/kg	RM-SD-DB10-03-MAX	2/6	14 - 28	31		36000	nc	720000		NO	BSL	
105-67-9	2,4-Dimethylphenol	130	J	4100		µg/kg	OU3-B2-SB09-0204	3/14	450 - 4000	4100		120000	nc			NO	BSL	
91-57-6	2-Methylnaphthalene	38		73	J	µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	73		5600	nc			NO	BSL	
95-48-7	2-Methylphenol	680		680		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	680		310000	nc			NO	BSL	
106-44-5	4-Methylphenol	35		1400		µg/kg	OU3-B2-SB09-0204	2/14	450 - 4000	1400		31000	nc			NO	BSL	
83-32-9	Acenaphthene	110	J	410		µg/kg	OU3-B2-SB03-0608-MAX	4/14	450 - 4000	410		370000	nc			NO	BSL	
208-96-8	Acenaphthylene	28	J	2700		µg/kg	RM-SD-DB10-03-MAX	12/14	630 - 630	2700		5600	nc			NO	BSL	
120-12-7	Anthracene	33	J	1900		µg/kg	OU3-B2-SB09-0204	12/14	490 - 630	1900		2200000	nc			NO	BSL	
56-55-3	Benz(a)anthracene	76	J	5800	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	5800		620	ca			YES	ASL	
50-32-8	Benz(a)pyrene	60	J	5200		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5200		62	ca			YES	ASL	
205-99-2	Benz(b)fluoranthene	94	J	5000		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	5000		620	ca			YES	ASL	
191-24-2	Benz(g,h,i)perylene	23	J	5300		µg/kg	OU3-B2-SB06-0204	8/14	600 - 1800	5300		230000	nc			NO	BSL	
207-08-9	Benz(k)fluoranthene	92	J	4600		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4600		6200	ca			NO	BSL	
117-81-7	bis(2-Ethylhexyl)phthalate	48	J	10000	*	µg/kg	OU3-B2-SB09-0204	12/14	620 - 630	10000		35000	ca*			NO	BSL	
86-74-8	Carbazole	30	J	450	J	µg/kg	OU3-B2-SB06-0204	10/14	490 - 630	450		24000	ca			NO	BSL	
218-01-9	Chrysene	120	J	6900	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	6900		62000	ca			NO	BSL	
53-70-3	Dibenzo(a,h)anthracene	32	J	680		µg/kg	RM-SD-DB10-03-MAX	11/14	630 - 4000	680		62	ca			YES	ASL	
132-64-9	Dibenzofuran	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		29000	nc			NO	BSL	
84-66-2	Diethylphthalate	30		30		µg/kg	RM-SD-DB10-03-MAX	1/14	450 - 4000	30		4900000	nc			NO	BSL	
131-11-3	Dimethylphthalate	2900		2900		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	2900		10000000	max			NO	BSL	
84-74-2	Di-n-Butylphthalate	150		410		µg/kg	OU3-B2-SB03-0608-MAX	2/14	450 - 4000	410		610000	nc			NO	BSL	
117-84-0	Di-n-octylphthalate	120	J	120	J	µg/kg	OU3-B2-SB09-0406	1/14	450 - 4000	120		240000	nc			NO	BSL	
206-44-0	Fluoranthene	180	J	14000	*	µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	14000		230000	nc			NO	BSL	
86-73-7	Fluorene	45	J	370		µg/kg	RM-SD-DB10-03-MAX	8/14	450 - 630	370		270000	nc			NO	BSL	
193-39-5	Indeno(1,2,3-cd)pyrene	43	J	4500		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	4500		620	ca			YES	ASL	
91-20-3	Naphthalene	110		410		µg/kg	OU3-B2-SB03-0608-MAX	3/14	450 - 4000	410		5600	nc	170000		NO	BSL	
86-30-6	N-Nitroso-diphenylamine	410	J	410	J	µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	410		99000	ca			NO	BSL	

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
87-86-5	Pentachlorophenol	200	J	200	J	µg/kg	OU3-B2-SB02-0406-MAX	1/14	1100 - 10000	200		3000	ca			NO	BSL	
85-01-8	Phenanthrene	67	J	4900		µg/kg	OU3-B2-SB09-0204	13/14	630 - 630	4900		2200000	nc			NO	BSL	
108-95-2	Phenol	1200		1200		µg/kg	OU3-B2-SB09-0204	1/14	450 - 4000	1200		3700000	nc			NO	BSL	
129-00-0	Pyrene	170	J	8400		µg/kg	OU3-B2-SB06-0204	13/14	630 - 630	8400		230000	nc			NO	BSL	
TOTPAH	Total PAH	1186		36080		µg/kg	RM-SD-DB10-03-MAX	4/4	0 - 0	36080						NO	NTX	
72-54-8	4,4'-DDD	22		130		µg/kg	OU3-B2-SB06-0204	3/15	3.3 - 430	130	4.6	2400	ca			NO	BSL	
72-55-9	4,4'-DDE	0.18	J	9.4		µg/kg	RM-SD-DB10-03-MAX	4/15	5.4 - 430	9.4	16.7	1700	ca			NO	BSL	
309-00-2	Aldrin	0.11	J	0.47	J	µg/kg	RM-SD-DB07-03	2/15	1.7 - 220	0.47	2.41	29	ca*	3000		NO	BSL	
319-84-6	alpha-BHC	0.14	J	0.26		µg/kg	RM-SD-DB10-03-MAX	3/15	1.7 - 220	0.26	2.41	90	ca	700		NO	BSL	
5103-71-9	alpha-Chlordane	0.56		1200		µg/kg	OU3-B2-SB02-0406-MAX	9/15	3.2 - 4.7	1200	4.88	1600	ca	72000		NO	BSL	
AROCLORTOTC	Aroclor, Total (Conservative)	324		96550		µg/kg	OU3-B2-SB02-0406-MAX	16/18	66 - 120	96550		220	ca			YES	ASL	
12672-29-6	Aroclor-1248	280		1400		µg/kg	OU3-B2-SB09-0204	2/18	33 - 4300	1400	46.1	220	ca			YES	ASL	
11097-69-1	Aroclor-1254	250		77000	*	µg/kg	OU3-B2-SB02-0406-MAX	4/18	33 - 290	77000	46.1	220	ca**			YES	ASL	
37324-23-5	Aroclor-1262	200	J	4400	*J	µg/kg	OU3-B2-SB09-0204	5/18	33 - 4400	4400	36.8	220	ca			YES	ASL	
11100-14-4	Aroclor-1268	50	J	7200	*	µg/kg	OU3-B2-SB09-0204	14/18	54 - 4400	7200	46.1	220	ca			YES	ASL	
60-57-1	Dieldrin	2	J	2600	J	µg/kg	OU3-B2-SB02-0406-MAX	8/15	6.1 - 17	2600	13.1	30	ca	1000		YES	ASL	
1031-07-8	Endosulfan Sulfate	16		16		µg/kg	OU3-B2-SB06-0204	1/15	3.3 - 430	16	4.69	37000	nc			NO	BSL	
7421-93-4	Endrin Aldehyde	13		49		µg/kg	OU3-B2-SB09-0204	2/15	3.3 - 430	49	4.56	1800	nc			NO	BSL	
5103-74-2	gamma-Chlordane	0.67		17		µg/kg	RM-SD-DB03-03	5/15	2.8 - 220	17	2.67	1600	ca	72000		NO	BSL	
1024-57-3	Heptachlor Epoxide	0.11	J	0.41	J	µg/kg	RM-SD-DB01-03	3/15	1.7 - 220	0.41	2.33	53	ca*	5000		NO	BSL	
TE	Toxicity Equivalency	0.0032	J	0.350845	J	µg/kg	RM-SD-DB01-03	9/9	0 - 0	0.350845		0.0039	ca			YES	ASL	
7429-90-5	Aluminum	7110		38900	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	38900	12900		nc			NO	EPA-I	
7440-36-0	Antimony	17.8	J	51.4		mg/kg	OU3-B2-SB05-0608	3/6	8.8 - 13.8	51.4	2.86	3.1	nc			YES	ASL	
7440-38-2	Arsenic	2.6		56		mg/kg	OU3-B2-SB05-0608	14/15	0.82 - 0.82	56	5.67	0.39	ca*	770		YES	ASL	
7440-39-3	Barium	14.8		3770	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	3770	57.5	540	nc	710000		YES	ASL	
7440-41-7	Beryllium	0.31		5.6		mg/kg	OU3-B2-SB05-0608	10/15	0.51 - 1.9	5.6	0.719	15	nc	1400		NO	BSL	
7440-43-9	Cadmium	0.22		149		mg/kg	OU3-B2-SB05-0608	13/15	0.8 - 0.85	149	0.397	3.7	nc	1800		YES	ASL	
7440-70-2	Calcium	1830	J	37000	J	mg/kg	OU3-B2-SB05-0608	10/15	1410 - 2420	37000	1600					NO	NUT	
7440-47-3	Chromium	12.4	J	3270	J	mg/kg	OU3-B2-SB05-0608	14/15	146 - 146	3270	17	30	ca	280		YES	ASL	

TABLE 2.1B
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOCKWOOD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property

CAS Number	Chemical	Minimum Concentration	(1) Qualifier	Maximum Concentration	(1) Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-48-4	Cobalt	4.1		23.8		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	23.8	6.35	ca**				NO	EPA-I	
7440-50-8	Copper	28.3	J	7870	J	mg/kg	OU3-B2-SB05-0608	32/50	300 - 300	7870	28.8	nc				NO	EPA-I	
7439-89-6	Iron	12900		68100	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	68100	16000	nc				NO	EPA-I	
7439-92-1	Lead	14	J	10600	J	mg/kg	OU3-B2-SB05-0608	45/57	100 - 100	10600	80.8	400	nc		YES	ASL		
7439-95-4	Magnesium	3160		31600		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	31600	3250				NO	NUT		
7439-96-5	Manganese	122	J	722	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	722	306	180	nc		YES	ASL		
7439-97-6	Mercury	0.11	J	2.3		mg/kg	RM-SD-DB10-03-MAX	11/15	0.06 - 0.14	2.3	0.111	2.3	nc	10	NO	BSL		
7440-02-0	Nickel	7.5		457	J	mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	457	12.5	160	nc	14000	YES	ASL		
7440-09-7	Potassium	1460		21700	J	mg/kg	OU3-B2-SB05-0608	11/15	2070 - 3430	21700	961				NO	NUT		
7782-49-2	Selenium	1		1		mg/kg	OU3-B2-SB09-0406	1/15	0.64 - 5	1	0.499	39	nc		NO	BSL		
7440-22-4	Silver	0.39		2.9		mg/kg	OU3-B2-SB09-0204	7/15	0.75 - 2.2	2.9	0.508	39	nc		NO	BSL		
7440-23-5	Sodium	866		187000	*	mg/kg	OU3-B2-SB05-0608	13/15	214 - 790	187000	76.4				NO	NUT		
7440-28-0	Thallium	2.2		8.4		mg/kg	OU3-B2-SB05-0608	2/15	0.91 - 8.4	8.4	0.368	0.52	nc		YES	ASL		
7440-62-2	Vanadium	14.6		224		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	224	34.2	55	nc		YES	ASL		
7440-66-6	Zinc	34.4	J	5930		mg/kg	OU3-B2-SB05-0608	15/15	0 - 0	5930	112	2300	nc		YES	ASL		
ASBESTOS	Asbestos	1		50		%	DBL-008, DBL-009	41/52	0.1 - 0.1	50	0.99	1			YES	ASL		

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the maximum of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.

(4) Rationale Codes Selection Reason:

Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason:

Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

MCL = Federal Maximum Contaminant Level

SMCL = Secondary Maximum Contaminant Level

J = Estimated Value

ca = Carcinogenic

nc = Non-Carcinogenic

EB = present in equipment blank

nc_1 = Region IX PRG for this non-carcinogen was based on a ceiling limit or saturation.

The value shown is 1/10 of the original Region IX PRG.

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
200 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 200 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-50-8	Copper	43	J	1100		mg/kg	OU6-SO-SPIM-103-0204	5/8	200 - 200	1100	28.8			NO	<u>EPA-I</u>
7439-92-1	Lead	49	J	817		mg/kg	OU6-SO-SPIM-103-0204	6/8	100 - 100	817	80.8	750 nc		YES	<u>ASL</u>
ASBESTOS	Asbestos	2		25		%	OU6-SO-FB200-101-0002, OU6-SO-FB200-101-0204	8/8	0 - 0	25		1		YES	<u>ASL</u>

Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

J = Estimated Value

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

EB = present in equipment blank

Frequent Detection (FD)

* = From dilution analysis or estimated maximum possible concentration

Toxicity Information Available (TX)

= Possible false positive due to interference

Above Screening Levels (ASL)

ca = Carcinogenic

Deletion Reason: Infrequent Detection (IFD)

ca* = where nc < 100X ca

Background Levels (BKG)

ca** = where nc < 10X ca

No Toxicity Information (NTX)

nc = Non-Carcinogenic

Essential Nutrient (NUT)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Below Screening Level (BSL)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	4	J	4	J	µg/kg	OU6-SO-FBSWL-101-0204	1/6	13 - 23	4			120000 sat	1200000	NO	BSL
120-82-1	1,2,4-Trichlorobenzene	2	J	2	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	2			300000 nc	3200000	NO	BSL
541-73-1	1,3-Dichlorobenzene	1	J	1	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	1			6300 nc		NO	BSL
106-46-7	1,4-Dichlorobenzene	2	J	3	J	µg/kg	OU6-SO-SPVM-101-0002	3/6	14 - 23	3			7900 ca		NO	BSL
78-93-3	2-Butanone	5	J	34		µg/kg	OU6-SO-SPVM-101-0002	6/6	0 - 0	34			2700000 nc		NO	BSL
67-64-1	Acetone	55		180		µg/kg	OU6-SO-SPVM-101-0002	3/6	29 - 76	180			600000 nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPVM-101-0406	1/6	13 - 16	3			1300 ca*	800	NO	BSL
74-83-9	Bromomethane	3	J	19		µg/kg	OU6-SO-SPVM-101-0002	5/6	23 - 23	19			1300 nc	9000	NO	BSL
75-15-0	Carbon Disulfide	2	J	12	J	µg/kg	OU6-SO-SPVM-101-0406	6/6	0 - 0	12			72000 nc	720000	NO	BSL
108-90-7	Chlorobenzene	2	J	8	J	µg/kg	OU6-SO-SPVM-101-0002	4/6	13 - 16	8			53000 nc	130000	NO	BSL
75-00-3	Chloroethane	3	J	14	J	µg/kg	OU6-SO-SPVM-101-0002	4/6	16 - 23	14			6500 ca		NO	BSL
74-87-3	Chloromethane	3	J	44		µg/kg	OU6-SO-SPVM-101-0002	5/6	23 - 23	44			2600 ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	2	J	6	J	µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	6			15000 nc		NO	BSL
100-41-4	Ethylbenzene	8	J	19		µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	19			20000 ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	3	J	µg/kg	OU6-SO-FBSWL-101-0204, OU6-SO-FBSWL-101-0406, OU6-SO-SPVM-101-0406	4/6	13 - 16	3			200000 nc		NO	BSL
79-20-9	Methyl Acetate	8	J	8	J	µg/kg	OU6-SO-FBSWL-101-0002	1/6	14 - 23	8			9200000 nc		NO	BSL
108-87-2	Methylcyclohexane	5	J	35		µg/kg	OU6-SO-FBSWL-101-0204	4/6	13 - 16	35			870000 nc		NO	BSL
108-88-3	Toluene	3	J	51		µg/kg	OU6-SO-SPVM-101-0204	4/6	16 - 23	51			52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	2	J	130		µg/kg	OU6-SO-SPVM-101-0204	6/6	0 - 0	130			42000 nc		NO	BSL
79-01-6	Trichloroethylene	3	J	7	J	µg/kg	OU6-SO-SPVM-101-0204	2/6	13 - 23	7			110 ca	5000	NO	BSL
75-01-4	Vinyl Chloride	3	J	3	J	µg/kg	OU6-SO-SPVM-101-0204	1/6	13 - 23	3			750 ca	600	NO	BSL
91-57-6	2-Methylnaphthalene	39	J	300	J	µg/kg	SPD-10	4/10	480 - 1000	300			19000 nc	170000	NO	NTX

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
95-48-7	2-Methylphenol	120	J	120	J	µg/kg	SPD-10	1/10	480 - 1000	120			3100000 nc		NO	BSL
106-44-5	4-Methylphenol	170	J	210	J	µg/kg	SPD-10	2/10	480 - 1000	210			310000 nc		NO	BSL
83-32-9	Acenaphthene	63	J	1100		µg/kg	OU3-A2-SS04-0002	5/10	540 - 1000	1100			2900000 nc		NO	BSL
208-96-8	Acenaphthylene	56	J	2100		µg/kg	OU3-A2-SS04-0002	5/10	540 - 1000	2100			19000 nc		NO	NTX
98-86-2	Acetophenone	180	J	1600		µg/kg	OU6-SO-SPVM-101-0002	6/6	0 - 0	1600			160 nc		YES	ASL
120-12-7	Anthracene	110	J	5700		µg/kg	OU3-A2-SS04-0002	8/10	700 - 1000	5700			10000000 nc		NO	BSL
100-52-7	Benzaldehyde	200	JEB	890	JEB	µg/kg	OU6-SO-SPVM-101-0002	5/6	500 - 500	890			6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	140	J	9100	*	µg/kg	OU3-A2-SS04-0002	8/10	1000 - 3300	9100			2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	140	J	9100	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	9100			210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	160	J	6200	*J	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	6200			2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	81	J	4300		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	4300			2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	110	J	6300		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	6300			21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	100	J	260	J	µg/kg	OU6-SO-SPVM-101-0002	6/10	730 - 3200	260			120000 ca*		NO	BSL
86-74-8	Carbazole	65	J	1900		µg/kg	OU3-A2-SS04-0002	7/10	700 - 1000	1900			86000 ca		NO	BSL
218-01-9	Chrysene	220	J	9200	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	9200			210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	140	J	2300		µg/kg	OU3-A2-SS04-0002	5/10	600 - 1000	2300			210 ca		YES	ASL
132-64-9	Dibenzofuran	320	J	1600		µg/kg	OU3-A2-SS04-0002	3/10	480 - 1000	1600			310000 nc		NO	BSL
131-11-3	Dimethylphthalate	70	J	70	J	µg/kg	SPD-10	1/10	480 - 1000	70			1000000 max		NO	BSL
84-74-2	Di-n-Butylphthalate	72	J	210	J	µg/kg	SPD-10	3/10	500 - 1000	210			6200000 nc		NO	BSL
206-44-0	Fluoranthene	160	J	23000	*	µg/kg	OU3-A2-SS04-0002	10/10	0 - 0	23000			2200000 nc		NO	BSL
86-73-7	Fluorene	68	J	1700		µg/kg	OU3-A2-SS04-0002	8/10	700 - 1000	1700			2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	100	J	4600		µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	4600			2100 ca		YES	ASL
91-20-3	Naphthalene	64	J	550	J	µg/kg	OU3-A2-SS04-0002	5/10	500 - 1000	550			19000 nc	170000	NO	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	Minimum Qualifier	(1) Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
86-30-6	N-Nitroso-diphenylamine	200	J	200	J	µg/kg	OU6-SO-SPVM-101-0002	1/10	500 - 1000	200			350000 ca		NO	BSL	
85-01-8	Phenanthrene	240	J	19000	*	µg/kg	OU3-A2-SS04-0002	9/10	1000 - 1000	19000			10000000 nc		NO	NTX	
108-95-2	Phenol	370	JEB	2400		µg/kg	SPD-10	6/10	480 - 1000	2400			10000000 nc		NO	BSL	
129-00-0	Pyrene	190	J	23000	*J	µg/kg	OU3-A2-SS04-0002	10/10	0 - 0	23000			2900000 nc		NO	BSL	
TOTPAH	Total PAH	2380		2380		µg/kg	OU3-A2-SB04A-1214-MAX	1/1	0 - 0	2380					NO	NTX	
72-54-8	4,4'-DDD	6.2		6.2		µg/kg	OU3-A2-SS04-0002	1/10	4.8 - 71	6.2			10000 ca		NO	BSL	
72-55-9	4,4'-DDE	69		90		µg/kg	OU6-SO-FBSWL-101-0204	2/10	4.3 - 71	90			7000 ca		NO	BSL	
5103-71-9	alpha-Chlordane	3.9		3.9		µg/kg	OU3-A2-SS04-0204	1/10	2.2 - 37	3.9			6500 ca	72000	NO	NTX	
AROCLORTOTC	Aroclor, Total (Conservative)	659.5		278000		µg/kg	OU6-SO-FBSWL-102-0002	13/14	630 - 630	278000			1000 ca		YES	ASL	
12672-29-6	Aroclor-1248	6200	J	6200	J	µg/kg	SPD-10-SA6648	1/12	43 - 12000	6200			740 ca		YES	ASL	
37324-23-5	Aroclor-1262	130		71000	J	µg/kg	SPD-10	6/12	77 - 12000	71000			1000 ca		YES	ASL	
11100-14-4	Aroclor-1268	210		230000		µg/kg	OU6-SO-FBSWL-102-0002	12/12	0 - 0	230000			46.1		YES	ASL	
60-57-1	Dieldrin	4.6		93		µg/kg	OU6-SO-FBSWL-101-0204	3/10	7.7 - 71	93			13.1	110 ca	1000	NO	BSL
33213-65-9	Endosulfan II	8.3		8.3		µg/kg	OU3-A2-SS04-0204	1/10	4.3 - 71	8.3			4.72	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	16	#	7300	#	µg/kg	OU6-SO-FBSWL-101-0204	6/10	4.3 - 63	7300			4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	14		1400	#	µg/kg	OU6-SO-FBSWL-101-0204	6/10	4.8 - 63	1400			4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	10		10		µg/kg	OU3-A2-SB04A-1214-MAX	1/10	4.3 - 71	10			5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	4		260	J	µg/kg	SPD-10	3/10	3.9 - 37	260			2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	150	#	1100		µg/kg	OU6-SO-FBSWL-101-0204	4/10	22 - 330	1100			22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.0139	J	20.14	J	µg/kg	SPD-10	5/5	0 - 0	20.14			0.027 ca		YES	ASL	
7429-90-5	Aluminum	5120		15500		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	15500			12900		NO	EPA-I	
7440-38-2	Arsenic	4.7		8.8		mg/kg	OU6-SO-SPVM-101-0002	8/10	4.9 - 7.2	8.8			5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	67.7		16700		mg/kg	SPD-10	10/10	0 - 0	16700			57.5	6700 nc	710000	YES	ASL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7440-41-7	Beryllium	0.53		0.85		mg/kg	OU6-SO-SPVM-101-0002	7/10	0.45 - 0.53	0.85	0.719	1900 nc	1400	NO	BSL	
7440-43-9	Cadmium	0.46		1.8		mg/kg	OU3-A2-SS04-0204	6/10	0.097 - 0.86	1.8	0.397	45 nc	1800	NO	BSL	
7440-70-2	Calcium	1190		16500		mg/kg	OU3-A2-SB04A-1214-MAX	10/10	0 - 0	16500	1600			NO	NUT	
7440-47-3	Chromium	24.3		301		mg/kg	OU6-SO-SPVM-101-0204	10/10	0 - 0	301	17	64 ca	280	YES	ASL	
7440-48-4	Cobalt	4.8		37		mg/kg	SPD-10	10/10	0 - 0	37	6.35			NO	EPA-I	
7440-50-8	Copper	68.8	J	36300		mg/kg	SPD-10	21/23	150 - 300	36300	28.8			NO	EPA-I	
7439-89-6	Iron	15200		26500		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	26500	16000			NO	EPA-I	
7439-92-1	Lead	46	J	40100		mg/kg	SPD-10	22/24	40 - 100	40100	80.8	750 nc		YES	ASL	
7439-95-4	Magnesium	4210		76700		mg/kg	SPD-10	10/10	0 - 0	76700	3250			NO	NUT	
7439-96-5	Manganese	154		324		mg/kg	OU3-A2-SS04-0002	10/10	0 - 0	324	306	1900 nc		NO	BSL	
7439-97-6	Mercury	0.1	J	1.5		mg/kg	OU6-SO-SPVM-101-0204	8/10	0.12 - 0.15	1.5	0.111	31 nc	10	NO	BSL	
7440-02-0	Nickel	15		469		mg/kg	SPD-10	10/10	0 - 0	469	12.5	2000 nc	14000	NO	BSL	
7440-09-7	Potassium	1120	J	3110		mg/kg	OU6-SO-FBSWL-101-0406	9/10	374 - 374	3110	961			NO	NUT	
7782-49-2	Selenium	0.71	J	1.6	J	mg/kg	OU6-SO-SPVM-101-0406	3/10	0.56 - 2.2	1.6	0.499	510 nc		NO	BSL	
7440-22-4	Silver	0.77		2.6		mg/kg	OU6-SO-FBSWL-101-0002	6/10	0.29 - 0.98	2.6	0.508	510 nc		NO	BSL	
7440-23-5	Sodium	345	J	6990		mg/kg	OU3-A2-SB04A-1214-MAX	9/10	74.5 - 74.5	6990	76.4			NO	NUT	
7440-62-2	Vanadium	15.7		48.7		mg/kg	OU6-SO-FBSWL-101-0406	10/10	0 - 0	48.7	34.2	720 nc		NO	BSL	
7440-66-6	Zinc	58.6		3790		mg/kg	SPD-10	10/10	0 - 0	3790	112	10000 nc		NO	BSL	
ASBESTOS	Asbestos	0.9		90		%	SPD-10, SPD-5	22/24	0.1 - 0.1	90		1		YES	ASL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
230 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	(1) Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	(5)
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason:

Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason:

Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
75-34-3	1,1-Dichloroethane	10	J	10	J	µg/kg	OU6-SO-SPDPS-102-0608	1/12	11 - 35	10		170000 nc	1200000	NO	BSL	
120-82-1	1,2,4-Trichlorobenzene	1	J	1	J	µg/kg	OU6-SO-SPDPS-102-0204	1/7	12 - 35	1		300000 nc	3200000	NO	BSL	
540-59-0	1,2-Dichloroethene (total)	11	J	11	J	µg/kg	SP-SO-SB4-0406	1/5	11 - 34	11		4300 nc		NO	NTX	
78-93-3	2-Butanone	16		150		µg/kg	OU6-SO-SPDPS-102-1214	10/12	11 - 34	150		2700000 nc		NO	BSL	
108-10-1	4-Methyl-2-Pentanone	15	J	31	J	µg/kg	OU6-SO-SPDPS-102-0608	2/12	11 - 35	31		280000 nc		NO	BSL	
67-64-1	Acetone	76		650	, J	µg/kg	OU6-SO-SPDPS-102-0608, OU6-SO-SPDPS-102-1214	8/12	11 - 270	650		600000 nc		NO	BSL	
71-43-2	Benzene	1	J	9	J	µg/kg	OU6-SO-SPDPS-102-0810	5/12	11 - 34	9		1300 ca*	800	NO	BSL	
75-25-2	Bromoform	2	J	5	J	µg/kg	OU6-SO-SPDPS-102-0406, OU6-SO-SPDPS-102-0810	4/12	11 - 35	5		220000 ca*	52000	NO	BSL	
74-83-9	Bromomethane	7	J	7	J	µg/kg	OU6-SO-SPDPS-102-0810	1/12	11 - 35	7		1300 nc	9000	NO	BSL	
75-15-0	Carbon Disulfide	1	J	260		µg/kg	SP-SO-SB4-0406	11/12	21 - 21	260		72000 nc	720000	NO	BSL	
108-90-7	Chlorobenzene	5	J	950	*	µg/kg	OU6-SO-SPDPS-102-0810	6/12	11 - 15	950		53000 nc	130000	NO	BSL	
75-00-3	Chloroethane	10	J	11	J	µg/kg	OU6-SO-SPDPS-102-0810	2/12	11 - 35	11		6500 ca		NO	BSL	
74-87-3	Chloromethane	11	J	20	J	µg/kg	OU6-SO-SPDPS-102-1012	3/12	11 - 34	20		2600 ca		NO	BSL	
156-59-2	cis-1,2-Dichloroethene	2	J	98		µg/kg	OU6-SO-SPDPS-102-0608	3/7	11 - 35	98		15000 nc		NO	BSL	
100-41-4	Ethylbenzene	1	J	85	J	µg/kg	OU6-SO-SPDPS-102-0608	6/12	11 - 34	85		20000 ca	400000	NO	BSL	
98-82-8	Isopropylbenzene	2	J	5	J	µg/kg	OU6-SO-SPDPS-102-0608	4/7	11 - 15	5		200000 nc		NO	BSL	
1634-04-4	Methyl tert-Butyl Ether	2	J	2	J	µg/kg	OU6-SO-SPDPS-102-0002	1/7	11 - 35	2		160000 ca*		NO	BSL	
108-87-2	Methylcyclohexane	3	J	5	J	µg/kg	OU6-SO-SPDPS-102-0608	3/7	11 - 35	5		870000 nc		NO	BSL	
75-09-2	Methylene Chloride	32	J	32	J	µg/kg	OU6-SO-SPDPS-102-1214	1/12	11 - 34	32		21000 ca	13000	NO	BSL	
108-88-3	Toluene	3	J	4200	*	µg/kg	OU6-SO-SPDPS-102-1012	7/12	11 - 34	4200		52000 sat	650000	NO	BSL	
1330-20-7	Total Xylenes	5	J	480	J	µg/kg	OU6-SO-SPDPS-102-0608	8/12	11 - 34	480		42000 nc		NO	BSL	

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	(1) Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	(5)
												Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection	
156-60-5	trans-1,2-Dichloroethene	4	J	4	J	µg/kg	OU6-SO-SPDPS-102-0608	1/7	11 - 35	4		23000 nc		NO	BSL
79-01-6	Trichloroethene	3	J	9	J	µg/kg	SP-SO-SB4-0406	4/12	11 - 35	9		110 ca	5000	NO	BSL
75-01-4	Vinyl Chloride	11	J	11	J	µg/kg	OU6-SO-SPDPS-102-0608	1/12	11 - 35	11		750 ca	600	NO	BSL
92-52-4	1,1'-Biphenyl	370	J	650		µg/kg	OU6-SO-SPDPS-102-1012	3/6	420 - 710	650		35000 sat		NO	BSL
105-67-9	2,4-Dimethylphenol	1000	J	10000	*	µg/kg	OU6-SO-SPDPS-102-1012	5/14	380 - 32000	10000		1200000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	45	J	5700	J	µg/kg	SP-SO-SB3-1416	6/14	380 - 14000	5700		19000 nc		NO	NTX
95-48-7	2-Methylphenol	370	J	670		µg/kg	OU6-SO-SPDPS-102-1012	3/14	380 - 32000	670		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	130	J	7000	J	µg/kg	SP-SO-SB4-0406	6/14	380 - 32000	7000		310000 nc		NO	BSL
83-32-9	Acenaphthene	40	J	15000	J	µg/kg	SP-SO-SB3-1416	8/14	380 - 14000	15000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	97	J	3200	J	µg/kg	DPS3	9/14	450 - 32000	3200		19000 nc		NO	NTX
98-86-2	Acetophenone	60	J	9400	*	µg/kg	OU6-SO-SPDPS-102-1012	4/6	420 - 710	9400		160 nc		YES	ASL
120-12-7	Anthracene	210	J	6500	J	µg/kg	SP-SO-SB3-1416	12/14	450 - 710	6500		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	240	J	5100	*J	µg/kg	OU6-SO-SPDPS-102-1012	3/6	420 - 490	5100		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	150	J	13000		µg/kg	DPS3	13/13	0 - 0	13000		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	160	J	12000		µg/kg	DPS3	13/14	32000 - 32000	12000		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	210	J	11000		µg/kg	DPS3	14/14	0 - 0	11000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	120	J	3700	J	µg/kg	SP-SO-SB4-0406	13/14	32000 - 32000	3700		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	160	J	11000	J	µg/kg	DPS3	10/14	400 - 32000	11000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	53	J	65000	J	µg/kg	SP-SO-SB9-0810	8/14	380 - 14000	65000		120000 ca*		NO	BSL
85-68-7	Butylbenzylphthalate	28	J	28	J	µg/kg	DPS6	1/14	380 - 32000	28		10000000 nc		NO	BSL
86-74-8	Carbazole	70	J	6500	J	µg/kg	SP-SO-SB4-0406	10/11	32000 - 32000	6500		86000 ca		NO	BSL
218-01-9	Chrysene	200	J	14000		µg/kg	DPS3	14/14	0 - 0	14000		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	120	J	370	J	µg/kg	OU6-SO-SPDPS-102-0608	6/14	400 - 32000	370		210 ca		YES	ASL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	(1) Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	(5)
132-64-9	Dibenzofuran	45	J	7600	J	µg/kg	SP-SO-SB3-1416	8/14	380 - 14000	7600		310000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	49	J	15000	J	µg/kg	SP-SO-SB3-1416	7/14	380 - 4500	15000		6200000 nc		NO	BSL
206-44-0	Fluoranthene	280	J	32000		µg/kg	DPS3	12/14	14000 - 32000	32000		2200000 nc		NO	BSL
86-73-7	Fluorene	80	J	11000	J	µg/kg	SP-SO-SB3-1416	11/14	450 - 14000	11000		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	5700		µg/kg	DPS3	13/14	32000 - 32000	5700		2100 ca		YES	ASL
91-20-3	Naphthalene	22	J	7700	J	µg/kg	SP-SO-SB3-1416	7/14	380 - 14000	7700		19000 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	26	J	26	J	µg/kg	SP-SO-SB9-0608	1/14	380 - 32000	26		350000 ca		NO	BSL
85-01-8	Phenanthrene	130	J	31000	J	µg/kg	SP-SO-SB3-1416	14/14	0 - 0	31000		10000000 nc		NO	NTX
108-95-2	Phenol	75	J	4200		µg/kg	OU6-SO-SPDPS-102-1012	6/14	380 - 32000	4200		10000000 nc		NO	BSL
129-00-0	Pyrene	330	J	32000		µg/kg	DPS3	14/14	0 - 0	32000		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	5	J	350		µg/kg	OU6-SO-SPDPS-102-1012	7/16	4 - 82	350	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	4.3	J	150		µg/kg	OU6-SO-SPDPS-102-1012	9/15	4.3 - 82	150	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	3.7	J	960	J	µg/kg	OU6-SO-SPDPS-102-1012	7/14	4.3 - 82	960	29.1	7000 ca*		NO	BSL
5103-71-9	alpha-Chlordane	1.3	J	37	J	µg/kg	DPS3	6/16	2.2 - 42	37	4.88	6500 ca	72000	NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	473		180340		µg/kg	OU6-SO-SPDPS-102-1012	17/21	41 - 450	180340		1000 ca		YES	ASL
12672-29-6	Aroclor-1248	47		47		µg/kg	OU3-A2-SS03-0002	1/18	39 - 820	47	46.1	740 ca		NO	BSL
37324-23-5	Aroclor-1262	230	J	110000	*	µg/kg	OU6-SO-SPDPS-102-1012	14/17	39 - 510	110000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	260	J	68000	*	µg/kg	OU6-SO-SPDPS-102-1012	16/16	0 - 0	68000	46.1	1000 ca		YES	ASL
319-85-7	beta-BHC	5.4		5.4		µg/kg	OU6-SO-SPDPS-102-1214	1/16	2 - 42	5.4	2.39	1300 ca	6000	NO	BSL
60-57-1	Dieldrin	3.3	J	89		µg/kg	OU6-SO-SPDPS-102-0608	6/16	4 - 82	89	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	5		14	J	µg/kg	SP-SO-SB4-0406	2/16	2 - 42	14	4.52	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	35		7900	*#	µg/kg	OU6-SO-SPDPS-102-1012	7/16	4 - 82	7900	4.69	370000 nc		NO	NTX
72-20-8	Endrin	160	J	160	J	µg/kg	DPS3	1/16	3.9 - 82	160	4.77	18000 nc		NO	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	(1) Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7421-93-4	Endrin Aldehyde	15	#	1900	#	µg/kg	OU6-SO-SPDPS-102-1012	7/15	4 - 82	1900	4.56	18000 nc		NO	NTX	
53494-70-5	Endrin Ketone	4.3		94		µg/kg	SPDPS 001-MAX	2/16	4 - 82	94	5.31	18000 nc		NO	NTX	
5103-74-2	gamma-Chlordane	4.9	J	71	J	µg/kg	DPS3	7/16	2.2 - 42	71	2.67	6500 ca	72000	NO	NTX	
76-44-8	Heptachlor	2.7	J	2.7	J	µg/kg	SP-SO-SB4-0406	1/16	2 - 42	2.7	2.19	380 ca	4000	NO	BSL	
1024-57-3	Heptachlor Epoxide	5.9	J	5.9	J	µg/kg	SP-SO-SB8-0002	1/16	2 - 42	5.9	2.33	190 ca*	5000	NO	BSL	
72-43-5	Methoxychlor	41		2300		µg/kg	OU6-SO-SPDPS-102-0608	5/16	20 - 420	2300	22.3	310000 nc		NO	BSL	
TE	Toxicity Equivalency	0.0016	J	2.6	J	µg/kg	OU6-SO-SPDPS-102-1012	12/13	0.39779 - 0.39779	2.6		0.027 ca		YES	ASL	
7429-90-5	Aluminum	3800		13500		mg/kg	OU3-A2-SS03-0002	18/18	0 - 0	13500	12900			NO	EPA-I	
7440-38-2	Arsenic	2.1		18.5		mg/kg	OU6-SO-SPDPS-102-0002	18/18	0 - 0	18.5	5.67	1.6 ca*	770	YES	ASL	
7440-39-3	Barium	74.3	J	14500		mg/kg	OU6-SO-SPDPS-102-1012	17/18	41.5 - 41.5	14500	57.5	6700 nc	710000	YES	ASL	
7440-41-7	Beryllium	0.1	J	0.65		mg/kg	DPS6	11/18	0.08 - 0.41	0.65	0.719	1900 nc	1400	NO	BSL	
7440-43-9	Cadmium	0.6		1.8		mg/kg	OU6-SO-SPDPS-102-1012	6/18	0.13 - 1.6	1.8	0.397	45 nc	1800	NO	BSL	
7440-70-2	Calcium	791	J	11900	J	mg/kg	OU6-SO-SPDPS-102-0608	18/18	0 - 0	11900	1600			NO	NUT	
7440-47-3	Chromium	8.2	J	141		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	141	17	64 ca	280	YES	ASL	
7440-48-4	Cobalt	4.7		34.2		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	34.2	6.35			NO	EPA-I	
7440-50-8	Copper	17.4	J	30400	J	mg/kg	OU6-SO-SPDPS-102-1012	28/30	300 - 300	30400	28.8			NO	EPA-I	
7439-89-6	Iron	10100		26800		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	26800	16000			NO	EPA-I	
7439-92-1	Lead	32		25400		mg/kg	OU6-SO-SPDPS-102-1012	54/55	30 - 30	25400	80.8	750 nc		YES	ASL	
7439-95-4	Magnesium	2220	J	57200	J	mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	57200	3250			NO	NUT	
7439-96-5	Manganese	91.7	J	546		mg/kg	OU3-A2-SS03-0002	18/18	0 - 0	546	306	1900 nc		NO	BSL	
7439-97-6	Mercury	0.08	J	0.23		mg/kg	SP-SO-SB4-0406	11/18	0.09 - 0.13	0.23	0.111	31 nc	10	NO	BSL	
7440-02-0	Nickel	7.7	J	520		mg/kg	OU6-SO-SPDPS-102-1012	18/18	0 - 0	520	12.5	2000 nc	14000	NO	BSL	
7440-09-7	Potassium	685		3190		mg/kg	OU6-SO-SPDPS-102-1214	17/18	676 - 676	3190	961			NO	NUT	

TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7782-49-2	Selenium	0.9	J	0.9	J	mg/kg	SP-SO-SB8-0002	1/18	0.34 - 2.3	0.9	0.499	510	nc		NO	BSL
7440-22-4	Silver	0.5	J	2.8	J	mg/kg	SP-SO-SB4-0406	7/18	0.33 - 2.1	2.8	0.508	510	nc		NO	BSL
7440-23-5	Sodium	145		15700		mg/kg	SP-SO-SB3-1416	12/18	134 - 821	15700	76.4				NO	NUT
7440-28-0	Thallium	0.72		0.72		mg/kg	SP-SO-SB4-0406	1/17	0.17 - 1.5	0.72	0.368	6.7	nc		NO	BSL
7440-62-2	Vanadium	11.8		60.8		mg/kg	SP-SO-SB4-0406	18/18	0 - 0	60.8	34.2	720	nc		NO	BSL
7440-66-6	Zinc	30	J	3260	J	mg/kg	SP-SO-SB4-0406	18/18	0 - 0	3260	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.99		90		%	DPS-4	51/54	0.1 - 0.1	90		1		YES	ASL	

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3)	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
79-34-5	1,1,2,2-Tetrachloroethane	33	J	33	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/10	7 - 130	33		930 ca	600	NO	BSL	
75-34-3	1,1-Dichloroethane	12	J	12	J	µg/kg	OU6-SO-SPHM-101-0406	1/10	7 - 130	12		170000 nc	1200000	NO	BSL	
540-59-0	1,2-Dichloroethene (total)	730	J	730	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/3	130 - 130	730		4300 nc		NO	NTX	
78-93-3	2-Butanone	18		100		µg/kg	OU6-SO-SPHM-101-1214	7/10	88 - 130	100		2700000 nc		NO	BSL	
108-10-1	4-Methyl-2-Pentanone	11		59	J	µg/kg	OU6-SO-SPHM-101-0810	4/10	7 - 130	59		280000 nc		NO	BSL	
67-64-1	Acetone	89	EB	1400		µg/kg	OU3-A2-SB01-0608	8/10	270 - 270	1400		600000 nc		NO	BSL	
71-43-2	Benzene	4	J	59	J	µg/kg	OU6-SO-SPHM-101-0406	5/10	7 - 130	59		1300 ca*	800	NO	BSL	
74-83-9	Bromomethane	11	J	25	J	µg/kg	OU6-SO-SPHM-101-1214	2/10	7 - 130	25		1300 nc	9000	NO	BSL	
75-15-0	Carbon Disulfide	5	J	78	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	5/10	7 - 130	78		72000 nc	720000	NO	BSL	
108-90-7	Chlorobenzene	21	J	6500	*	µg/kg	OU6-SO-SPHM-101-1214	7/10	7 - 130	6500		53000 nc	130000	NO	BSL	
75-00-3	Chloroethane	19		70		µg/kg	OU6-SO-SPHM-101-1214	3/10	7 - 130	70		6500 ca		NO	BSL	
74-87-3	Chloromethane	19		180		µg/kg	OU6-SO-SPHM-101-1214	4/10	7 - 130	180		2600 ca		NO	BSL	
156-59-2	cis-1,2-Dichloroethene	5	J	31	J	µg/kg	OU6-SO-SPHM-101-0406	4/7	7 - 18	31		15000 nc		NO	BSL	
110-82-7	Cyclohexane	13	J	13	J	µg/kg	OU6-SO-SPHM-101-0406	1/7	7 - 18	13		14000 sat		NO	BSL	
100-41-4	Ethylbenzene	4	J	1300	*J	µg/kg	OU6-SO-SPHM-101-0406	9/10	7 - 7	1300		20000 ca	400000	NO	BSL	
98-82-8	Isopropylbenzene	2	J	81	J	µg/kg	OU6-SO-SPHM-101-1214	5/7	7 - 10	81		200000 nc		NO	BSL	
1634-04-4	Methyl tert-Butyl Ether	6	J	6	J	µg/kg	OU6-SO-SPHM-101-0204-MAX	1/7	7 - 18	6		160000 ca*		NO	BSL	
108-87-2	Methylcyclohexane	3	J	53	J	µg/kg	OU6-SO-SPHM-101-0406	5/7	7 - 10	53		870000 nc		NO	BSL	
108-88-3	Toluene	2	J	2100	*	µg/kg	OU6-SO-SPHM-101-0810	10/10	0 - 0	2100		52000 sat	650000	NO	BSL	
1330-20-7	Total Xylenes	22		5200	*	µg/kg	OU6-SO-SPHM-101-1214	9/10	7 - 7	5200		42000 nc		NO	BSL	

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(5) Rationale for Contaminant Deletion or Selection	
79-01-6	Trichloroethene	2	J	330	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	7/10	7 - 130	330		110 ca	5000	YES	ASL
75-01-4	Vinyl Chloride	23	J	51	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	3/10	7 - 130	51		750 ca	600	NO	BSL
92-52-4	1,1'-Biphenyl	31	J	3200	J	µg/kg	OU6-SO-SPHM-101-0406	7/7	0 - 0	3200		35000 sat		NO	BSL
120-83-2	2,4-Dichlorophenol	23		23		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	23		180000 nc		NO	BSL
105-67-9	2,4-Dimethylphenol	58	J	21000		µg/kg	OU6-SO-SPHM-101-1214	12/14	17000 - 17000	21000		1200000 nc		NO	BSL
121-14-2	2,4-Dinitrotoluene	230	J	230	J	µg/kg	OU6-SO-SPHM-101-0608	1/14	360 - 17000	230		120000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	44	J	12000	J	µg/kg	OU6-SO-SPHM-101-0406	11/14	870 - 17000	12000		19000 nc		NO	NTX
95-48-7	2-Methylphenol	130	J	2000	J	µg/kg	OU6-SO-SPHM-101-1012	9/14	360 - 17000	2000		3100000 nc		NO	BSL
106-44-5	4-Methylphenol	39	J	9800		µg/kg	OU6-SO-SPHM-101-1012	11/14	870 - 17000	9800		310000 nc		NO	BSL
83-32-9	Acenaphthene	39	J	12000	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	390 - 17000	12000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	100	J	5700		µg/kg	OU6-SO-SPHM-101-0608	9/14	590 - 17000	5700		19000 nc		NO	NTX
98-86-2	Acetophenone	500		7000	J	µg/kg	OU6-SO-SPHM-101-1214	4/7	360 - 2800	7000		160 nc		YES	ASL
120-12-7	Anthracene	35	J	18000		µg/kg	OU6-SO-SPHM-101-0608, OU6-SO-SPHM-101-1214	11/14	870 - 17000	18000		10000000 nc		NO	BSL
100-52-7	Benzaldehyde	28	JEB	1500	JEB	µg/kg	OU6-SO-SPHM-101-1214	7/7	0 - 0	1500		6200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	120	J	20000		µg/kg	OU6-SO-SPHM-101-0608, OU6-SO-SPHM-101-1012, OU6-SO-SPHM-101-1214	13/14	870 - 870	20000		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	150	J	17000		µg/kg	OU6-SO-SPHM-101-1012	13/14	870 - 870	17000		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	150	J	18000		µg/kg	OU6-SO-SPHM-101-1012	13/14	870 - 870	18000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	130	J	9900	J	µg/kg	OU6-SO-SPHM-101-1214	11/14	870 - 17000	9900		2900000 nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	150	J	14000		µg/kg	OU6-SO-SPHM-101-0608	13/14	870 - 870	14000		21000 ca		NO	BSL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
117-81-7	bis(2-Ethylhexyl)phthalate	130	J	1000	J	µg/kg	OU6-SO-SPHM-101-0406	5/14	360 - 17000	1000		120000 ca*			NO	BSL
86-74-8	Carbazole	54	J	17000		µg/kg	OU6-SO-SPHM-101-1214	10/14	590 - 17000	17000		86000 ca			NO	BSL
218-01-9	Chrysene	740		27000	*	µg/kg	OU6-SO-SPHM-101-0608	13/14	870 - 870	27000		210000 ca			NO	BSL
53-70-3	Dibenzo(a,h)anthracene	98	J	3900	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	590 - 17000	3900		210 ca			YES	ASL
132-64-9	Dibenzofuran	32	J	9200	J	µg/kg	OU6-SO-SPHM-101-1214	8/14	390 - 17000	9200		310000 nc			NO	BSL
84-66-2	Diethylphthalate	45		45		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	45		1000000 nc			NO	BSL
131-11-3	Dimethylphthalate	65		230	J	µg/kg	OU6-SO-SPHM-101-0608	3/14	360 - 17000	230		1000000 max			NO	BSL
84-74-2	Di-n-Butylphthalate	63	J	2700	J	µg/kg	OU6-SO-SPHM-101-1012	3/14	360 - 17000	2700		6200000 nc			NO	BSL
117-84-0	Di-n-octylphthalate	34		34		µg/kg	OU6-SO-SPHM-101-0204-MAX	1/14	360 - 17000	34		2500000 nc			NO	BSL
206-44-0	Fluoranthene	1100		66000		µg/kg	OU6-SO-SPHM-101-1214	12/14	590 - 870	66000		2200000 nc			NO	BSL
86-73-7	Fluorene	84	J	16000	J	µg/kg	OU6-SO-SPHM-101-1214	10/14	390 - 17000	16000		2600000 nc			NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	420		10000	J	µg/kg	OU6-SO-SPHM-101-1214	9/14	390 - 17000	10000		2100 ca			YES	ASL
91-20-3	Naphthalene	37	J	10000	J	µg/kg	OU6-SO-SPHM-101-0406, OU6-SO-SPHM-101-1214	11/14	870 - 17000	10000		19000 nc	170000	NO	BSL	
86-30-6	N-Nitroso-diphenylamine	380		4200		µg/kg	OU6-SO-SPHM-101-1012	5/14	360 - 17000	4200		350000 ca			NO	BSL
85-01-8	Phenanthrene	350	J	82000		µg/kg	OU6-SO-SPHM-101-1214	11/14	870 - 17000	82000		1000000 nc			NO	NTX
108-95-2	Phenol	35	JEB	8600	JEB	µg/kg	OU6-SO-SPHM-101-1214	12/14	17000 - 17000	8600		1000000 nc			NO	BSL
129-00-0	Pyrene	370	J	46000		µg/kg	OU6-SO-SPHM-101-1214	13/14	870 - 870	46000		2900000 nc			NO	BSL
TOTPAH	Total PAH	20800		68440		µg/kg	OU3-A2-SB01-0608	2/2	0 - 0	68440					NO	NTX
72-54-8	4,4'-DDD	3.5		3.5		µg/kg	OU6-SO-SPHM-101-0002	1/14	8.7 - 270	3.5	4.6	10000 ca			NO	BSL
72-55-9	4,4'-DDE	34		45		µg/kg	OU6-SO-SPHM-101-0204-MAX	2/13	3.5 - 270	45	16.7	7000 ca			NO	BSL
50-29-3	4,4'-DDT	460		480		µg/kg	OU6-SO-SPHM-101-0608	2/14	3.5 - 270	480	29.1	7000 ca*			NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	463		170450		µg/kg	OU6-SO-SPHM-101-0406	15/15	0 - 0	170450		1000 ca			YES	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
53469-21-9	Aroclor-1242	4100		4100		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	35 - 2400	4100	46.1	740 ca		YES	ASL
12672-29-6	Aroclor-1248	1200		1200		µg/kg	OU3-A2-SB01-1416	1/14	35 - 2700	1200	46.1	740 ca		YES	ASL
11097-69-1	Aroclor-1254	3800		3800		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	35 - 2400	3800	46.1	740 ca**		YES	ASL
37324-23-5	Aroclor-1262	1900	*	160000	*	µg/kg	OU6-SO-SPHM-101-0406	13/15	88 - 2400	160000	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	68	J	57000		µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	10/15	400 - 2300	57000	46.1	1000 ca		YES	ASL
60-57-1	Dieldrin	26	J	56		µg/kg	OU6-SO-SPHM-101-0608	3/14	3.5 - 230	56	13.1	110 ca	1000	NO	BSL
959-98-8	Endosulfan I	41	J	41	J	µg/kg	SP-SO-SB2-0204, SP-SO-SB2-0204B	2/14	1.8 - 120	41	4.52	370000 nc		NO	NTX
1031-07-8	Endosulfan Sulfate	150	*#	9800	*#	µg/kg	OU6-SO-SPHM-101-0810	7/14	8.7 - 270	9800	4.69	370000 nc		NO	NTX
7421-93-4	Endrin Aldehyde	23	#	2000	, *#	µg/kg	OU3-A2-SB01-0608, OU6-SO-SPHM-101-0608	10/14	8.7 - 270	2000	4.56	18000 nc		NO	NTX
53494-70-5	Endrin Ketone	9.7		9.7		µg/kg	OU6-SO-SPHM-101-0002	1/14	8.7 - 270	9.7	5.31	18000 nc		NO	NTX
5103-74-2	gamma-Chlordane	29		120	J	µg/kg	SPD4	4/14	1.8 - 120	120	2.67	6500 ca	72000	NO	NTX
72-43-5	Methoxychlor	360		1200		µg/kg	OU6-SO-SPHM-101-0810	5/14	18 - 1400	1200	22.3	310000 nc		NO	BSL
TE	Toxicity Equivalency	0.097	J	7.4	J	µg/kg	OU6-SO-SPHM-101-1012	11/11	0 - 0	7.4		0.027 ca		YES	ASL
7429-90-5	Aluminum	4360		17600	J	mg/kg	OU3-A2-SB03-1416	14/14	0 - 0	17600	12900			NO	EPA-I
7440-36-0	Antimony	0.79	J	2.4	J	mg/kg	OU6-SO-SPHM-101-0406	4/13	0.83 - 3.2	2.4	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	3.9		9.7		mg/kg	OU6-SO-SPHM-101-0204-MAX	10/14	4.2 - 8.3	9.7	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	57.8		13600		mg/kg	SPD4	14/14	0 - 0	13600	57.5	6700 nc	710000	YES	ASL
7440-41-7	Beryllium	0.3		0.92		mg/kg	OU3-A2-SB03-1416	6/14	0.18 - 0.36	0.92	0.719	1900 nc	1400	NO	BSL

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-43-9	Cadmium	0.66		3.2		mg/kg	OU6-SO-SPHM-101-1214	9/14	0.22 - 0.95	3.2	0.397	45 nc	1800	NO	<u>BSL</u>
7440-70-2	Calcium	594		3560		mg/kg	OU3-A2-SB03-1416	14/14	0 - 0	3560	1600			NO	<u>NUT</u>
7440-47-3	Chromium	23.4		180		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	180	17	64 ca	280	YES	<u>ASL</u>
7440-48-4	Cobalt	8.4		28.2		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	28.2	6.35			NO	<u>EPA-I</u>
7440-50-8	Copper	39.1		45100	J	mg/kg	OU6-SO-SPHM-101-1012	34/37	150 - 300	45100	28.8			NO	<u>EPA-I</u>
7439-89-6	Iron	13600		26700	J	mg/kg	OU3-A2-SB01-1416	14/14	0 - 0	26700	16000			NO	<u>EPA-I</u>
7439-92-1	Lead	25		41700	J	mg/kg	OU6-SO-SPHM-101-1012	46/47	100 - 100	41700	80.8	750 nc		YES	<u>ASL</u>
7439-95-4	Magnesium	5810		77600		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	77600	3250			NO	<u>NUT</u>
7439-96-5	Manganese	174		364	J	mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	364	306	1900 nc		NO	<u>BSL</u>
7439-97-6	Mercury	0.06		0.23	J	mg/kg	OU6-SO-SPHM-101-0810	4/14	0.05 - 0.31	0.23	0.111	31 nc	10	NO	<u>BSL</u>
7440-02-0	Nickel	19.1	J	471		mg/kg	OU6-SO-SPHM-101-1012	14/14	0 - 0	471	12.5	2000 nc	14000	NO	<u>BSL</u>
7440-09-7	Potassium	666		3520	J	mg/kg	OU3-A2-SB03-1416	13/14	389 - 389	3520	961			NO	<u>NUT</u>
7782-49-2	Selenium	0.88	J	6.8	J	mg/kg	SPD4	10/14	1.1 - 3.1	6.8	0.499	510 nc		NO	<u>BSL</u>
7440-22-4	Silver	1.3		4.1		mg/kg	OU6-SO-SPHM-101-0406	8/14	0.22 - 1.4	4.1	0.508	510 nc		NO	<u>BSL</u>
7440-23-5	Sodium	374	J	13100	J	mg/kg	OU3-A2-SB03-1416	10/14	54.7 - 1070	13100	76.4			NO	<u>NUT</u>
7440-62-2	Vanadium	2		45.8		mg/kg	OU3-A2-SB01-1416	14/14	0 - 0	45.8	34.2	720 nc		NO	<u>BSL</u>
7440-66-6	Zinc	74.6		9180	J	mg/kg	OU6-SO-SPHM-101-1214	14/14	0 - 0	9180	112	10000 nc		NO	<u>BSL</u>
ASBESTOS	Asbestos	0.99		90	%	SPD-3		45/47	0.1 - 0.1	90		1		YES	<u>ASL</u>

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
280 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection	
																	(5)
78-93-3	2-Butanone	4	J	76	J	µg/kg	OU6-SO-SPSC-104-0002	3/4	13 - 13	76			2700000	nc		NO	BSL
67-64-1	Acetone	16		360	J	µg/kg	OU6-SO-SPSC-104-0002	3/4	31 - 31	360			600000	nc		NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	3			1300	ca*	800	NO	BSL
75-25-2	Bromoform	1	J	1	J	µg/kg	OU6-SO-SPSC-104-0406	1/4	8 - 13	1			220000	ca*	52000	NO	BSL
75-15-0	Carbon Disulfide	2	J	53		µg/kg	SP-SO-MW112B-0608	4/4	0 - 0	53			72000	nc	720000	NO	BSL
108-90-7	Chlorobenzene	6	J	13	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	13			53000	nc	130000	NO	BSL
74-87-3	Chloromethane	4	J	4	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	4			2600	ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	1	J	35		µg/kg	OU6-SO-SPSC-104-0002	2/3	7 - 7	35			15000	nc		NO	BSL
110-82-7	Cyclohexane	3	J	3	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	3			14000	sat		NO	BSL
100-41-4	Ethylbenzene	19		43	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	43			20000	ca	400000	NO	BSL
98-82-8	Isopropylbenzene	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	2			200000	nc		NO	BSL
79-20-9	Methyl Acetate	2	J	9	J	µg/kg	OU6-SO-SPSC-104-0002	2/3	7 - 7	9			9200000	nc		NO	BSL
108-87-2	Methylcyclohexane	9	J	9	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	9			870000	nc		NO	BSL
75-09-2	Methylene Chloride	5	J	77		µg/kg	SP-SO-MW112B-0608	2/4	8 - 12	77			21000	ca	13000	NO	BSL
108-88-3	Toluene	37	J	49		µg/kg	OU6-SO-SPSC-104-0002	2/4	7 - 8	49			52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	140		190	J	µg/kg	SP-SO-MW112B-0608	2/4	7 - 8	190			42000	nc		NO	BSL
156-60-5	trans-1,2-Dichloroethene	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	7 - 8	2			23000	nc		NO	BSL
79-01-6	Trichloroethene	6	J	6	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	6			110	ca	5000	NO	BSL
75-01-4	Vinyl Chloride	2	J	2	J	µg/kg	OU6-SO-SPSC-104-0002	1/4	7 - 13	2			750	ca	600	NO	BSL
105-67-9	2,4-Dimethylphenol	46	J	2200	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	2200			1200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	52	J	230	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	230			19000	nc		NO	NTX
95-48-7	2-Methylphenol	28	J	170	J	µg/kg	SP-SO-MW112B-0608	3/5	440 - 450	170			3100000	nc		NO	BSL
106-44-5	4-Methylphenol	40	J	500	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	500			310000	nc		NO	BSL
100-02-7	4-Nitrophenol	43	J	43	J	µg/kg	OU6-SO-SPSC-104-0002	1/5	1000 - 1100	43			700000	nc		NO	BSL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection	
																	(5)
83-32-9	Acenaphthene	31	J	55	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	55			2900000	nc		NO	BSL
208-96-8	Acenaphthylene	45	J	120	J	µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	120			19000	nc		NO	NTX
98-86-2	Acetophenone	180	J	180	J	µg/kg	OU6-SO-SPSC-104-0002	1/3	410 - 450	180			160	nc		YES	ASL
120-12-7	Anthracene	84	J	140	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	140			10000000	nc		NO	BSL
100-52-7	Benzaldehyde	60	JEB	110	JEB	µg/kg	OU6-SO-SPSC-104-0002	3/3	0 - 0	110			6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	280	J	530		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	530			2100	ca		NO	BSL
50-32-8	Benzo(a)pyrene	310	J	580		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	580			210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	530		850		µg/kg	OU6-SO-SPSC-104-0002	4/5	440 - 440	850			2100	ca		NO	BSL
191-24-2	Benzo(g,h,i)perylene	80	J	240		µg/kg	OU3-A2-SS02-0002-MAX	5/5	0 - 0	240			2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	340	J	680		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	680			21000	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	140	J	140	J	µg/kg	SP-SO-MW112B-0608	1/5	370 - 450	140			120000	ca*		NO	BSL
86-74-8	Carbazole	52	J	69	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	69			86000	ca		NO	BSL
218-01-9	Chrysene	480	J	1200		µg/kg	OU3-A2-SS02-0002-MAX	5/5	0 - 0	1200			210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	36	J	76	J	µg/kg	OU6-SO-SPSC-104-0406	4/5	440 - 440	76			210	ca		NO	BSL
132-64-9	Dibenzofuran	32	J	91	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	91			310000	nc		NO	BSL
84-74-2	Di-n-Butylphthalate	160	J	160	J	µg/kg	SP-SO-MW112B-0608	1/5	370 - 450	160			6200000	nc		NO	BSL
206-44-0	Fluoranthene	710		1300		µg/kg	OU6-SO-SPSC-104-0406	5/5	0 - 0	1300			2200000	nc		NO	BSL
86-73-7	Fluorene	44	J	130	J	µg/kg	SP-SO-MW112B-0608	4/5	440 - 440	130			2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	100	J	210	, J	µg/kg	OU3-A2-SS02-0002-MAX, OU6-SO-SPSC-104-0406	5/5	0 - 0	210			2100	ca		NO	BSL
91-20-3	Naphthalene	51	J	340	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	340			19000	nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	36	J	490	J	µg/kg	SP-SO-MW112B-0608	3/5	440 - 450	490			350000	ca		NO	BSL
85-01-8	Phenanthrene	520		600	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	600			10000000	nc		NO	NTX
108-95-2	Phenol	37	JEB	1800	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	1800			10000000	nc		NO	BSL

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection	
																	(5)
129-00-0	Pyrene	540		930	J	µg/kg	SP-SO-MW112B-0608	5/5	0 - 0	930			2900000	nc		NO	BSL
TOTPAH	Total PAH	5865		5865		µg/kg	OU3-A2-SS02-0002-MAX	1/1	0 - 0	5865						NO	NTX
72-54-8	4,4'-DDD	22		22		µg/kg	OU6-SO-SPSC-104-0406	1/5	4.1 - 50	22	4.6		10000	ca		NO	BSL
72-55-9	4,4'-DDE	14		14		µg/kg	OU6-SO-SPSC-104-0204	1/5	4.5 - 50	14	16.7		7000	ca		NO	BSL
309-00-2	Aldrin	2.1	J	2.1	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	2.1	2.41		100	ca*	3000	NO	BSL
ACROCLORTOTC	Aroclor, Total (Conservative)	6880.5		290000		µg/kg	OU6-SO-SPSC-101-0810	6/6	0 - 0	290000			1000	ca		YES	ASL
12672-29-6	Aroclor-1248	250		250		µg/kg	OU3-A2-SS02-0002-MAX	1/6	41 - 15000	250	46.1		740	ca		NO	BSL
37324-23-5	Aroclor-1262	3400	*	20000	*	µg/kg	OU6-SO-SPSC-104-0002	5/6	15000 - 15000	20000	36.8		1000	ca		YES	ASL
11100-14-4	Aroclor-1268	2400		230000		µg/kg	OU6-SO-SPSC-101-0810	6/6	0 - 0	230000	46.1		1000	ca		YES	ASL
319-85-7	beta-BHC	4.2	J	4.2	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	4.2	2.39		1300	ca	6000	NO	BSL
60-57-1	Dieldrin	5.3		5.3		µg/kg	OU6-SO-SPSC-104-0204	1/5	4.5 - 50	5.3	13.1		110	ca	1000	NO	BSL
959-98-8	Endosulfan I	3.9	J	3.9	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	3.9	4.52		370000	nc		NO	NTX
1031-07-8	Endosulfan Sulfate	19	J	1300	#	µg/kg	OU6-SO-SPSC-104-0002	4/5	50 - 50	1300	4.69		370000	nc		NO	NTX
7421-93-4	Endrin Aldehyde	30	#	530		µg/kg	OU3-A2-SS02-0002-MAX	4/5	33 - 33	530	4.56		18000	nc		NO	NTX
5103-74-2	gamma-Chlordane	2.1	J	2.1	J	µg/kg	SP-SO-MW112B-0608	1/5	2.1 - 26	2.1	2.67		6500	ca	72000	NO	NTX
72-43-5	Methoxychlor	30		30		µg/kg	OU6-SO-SPSC-104-0204	1/5	23 - 260	30	22.3		310000	nc		NO	BSL
TE	Toxicity Equivalency	0.05	J	0.61	J	µg/kg	OU6-SO-SPSC-104-0002	4/4	0 - 0	0.61			0.027	ca		YES	ASL
7429-90-5	Aluminum	8560		14200		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	14200	12900					NO	EPA-I
7440-36-0	Antimony	0.96	J	0.97	J	mg/kg	OU6-SO-SPSC-104-0002	2/7	0.71 - 2.7	0.97	2.86		41	nc		NO	BSL
7440-38-2	Arsenic	4.6		10		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	10	5.67		1.6	ca*	770	YES	ASL
7440-39-3	Barium	273	J	3420		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	3420	57.5		6700	nc	710000	NO	BSL
7440-41-7	Beryllium	0.32	, J	0.42	J	mg/kg	OU6-SO-SPSC-104-0002	4/7	0.19 - 0.2	0.42	0.719		1900	nc	1400	NO	BSL
7440-43-9	Cadmium	0.24	J	47.3		mg/kg	OU6-SO-SPSC-104-0204	4/7	0.24 - 0.89	47.3	0.397		45	nc	1800	YES	ASL
7440-70-2	Calcium	2830		4800		mg/kg	OU6-SO-SPSC-104-0002	6/7	1560 - 1560	4800	1600					NO	NUT

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7440-47-3	Chromium	37.2		92.4	J	mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	92.4	17	64 ca	280	<u>YES</u>	<u>ASL</u>	
7440-48-4	Cobalt	7		15.4		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	15.4	6.35			<u>NO</u>	<u>EPA-I</u>	
7440-50-8	Copper	504	J	37000		mg/kg	OU6-SO-SPSC-101-0810	18/18	0 - 0	37000	28.8			<u>NO</u>	<u>EPA-I</u>	
7439-89-6	Iron	16600		32300		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	32300	16000			<u>NO</u>	<u>EPA-I</u>	
7439-92-1	Lead	425	J	46000		mg/kg	OU6-SO-SPSC-101-0810	31/35	30 - 30	46000	80.8	750 nc		<u>YES</u>	<u>ASL</u>	
7439-95-4	Magnesium	5840		20900		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	20900	3250			<u>NO</u>	<u>NUT</u>	
7439-96-5	Manganese	211		350		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	7/7	0 - 0	350	306	1900 nc		<u>NO</u>	<u>BSL</u>	
7440-02-0	Nickel	19		116		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	116	12.5	2000 nc	14000	<u>NO</u>	<u>BSL</u>	
7440-09-7	Potassium	1630		2840		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	2840	961			<u>NO</u>	<u>NUT</u>	
7782-49-2	Selenium	1.1	J	1.4	J	mg/kg	OU6-SO-SPSC-104-0204	3/7	0.5 - 1.4	1.4	0.499	510 nc		<u>NO</u>	<u>BSL</u>	
7440-22-4	Silver	0.39	J	1.7	J	mg/kg	SP-SO-MW112B-0608	4/7	0.24 - 0.57	1.7	0.508	510 nc		<u>NO</u>	<u>BSL</u>	
7440-23-5	Sodium	389		709		mg/kg	SP-SO-MW112B-0810, SP-SO-MW112B-0810A	6/7	464 - 464	709	76.4			<u>NO</u>	<u>NUT</u>	
7440-62-2	Vanadium	25.8		44.2		mg/kg	OU3-A2-SS02-0002-MAX	7/7	0 - 0	44.2	34.2	720 nc		<u>NO</u>	<u>BSL</u>	
7440-66-6	Zinc	177	J	8680	J	mg/kg	OU6-SO-SPSC-104-0204	7/7	0 - 0	8680	112	10000 nc		<u>NO</u>	<u>BSL</u>	
ASBESTOS	Asbestos	2		75		%	OU6-SO-SPSC-101-0608, OU6-SO-SPSC-101-0810	31/35	0.1 - 0.1	75		1		<u>YES</u>	<u>ASL</u>	

TABLE 2.6
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
300 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

Background values are the average of off-site background concentrations.

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

an HI of 0.1

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

* = From dilution analysis or estimated maximum possible concentration

Frequent Detection (FD)

= Possible false positive due to interference

Toxicity Information Available (TX)

ca = Carcinogenic

Above Screening Levels (ASL)

ca* = where nc < 100X ca

Deletion Reason: Infrequent Detection (IFD)

ca** = where nc < 10X ca

Background Levels (BKG)

nc = Non-Carcinogenic

No Toxicity Information (NTX)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Essential Nutrient (NUT)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	2	J	5	J	µg/kg	OU6-SO-SPDA-101-0002	2/4	11 - 21	5		2700000 nc			NO	BSL
67-64-1	Acetone	49		49		µg/kg	OU6-SO-SPDA-101-0002	1/4	11 - 21	49		600000 nc			NO	BSL
71-43-2	Benzene	3	J	3	J	µg/kg	OU6-SO-SPDA-101-0406	1/4	7 - 11	3		1300 ca*	800		NO	BSL
74-83-9	Bromomethane	1	J	1	J	µg/kg	OU6-SO-SPDA-101-0002	1/4	7 - 21	1		1300 nc	9000		NO	BSL
75-15-0	Carbon Disulfide	2	J	28	J	µg/kg	OU6-SO-SPDA-101-0406	4/4	0 - 0	28		72000 nc	720000		NO	BSL
108-88-3	Toluene	1	J	7	J	µg/kg	OU6-SO-SPDA-101-0406	3/4	7 - 7	7		52000 sat	650000		NO	BSL
1330-20-7	Total Xylenes	1	J	3	J	µg/kg	OU6-SO-SPDA-101-0406	2/4	7 - 9	3		42000 nc			NO	BSL
105-67-9	2,4-Dimethylphenol	180	J	180	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	180		1200000 nc			NO	BSL
91-57-6	2-Methylnaphthalene	46	J	50	J	µg/kg	OU6-SO-SPDA-101-0204	2/6	360 - 780	50		19000 nc			NO	NTX
95-48-7	2-Methylphenol	150	J	150	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	150		3100000 nc			NO	BSL
106-44-5	4-Methylphenol	130	J	130	J	µg/kg	OU6-SO-SPDA-101-0204	1/5	360 - 780	130		310000 nc			NO	BSL
83-32-9	Acenaphthene	54	J	92	J	µg/kg	OU6-SO-SPDA-101-0608	2/4	360 - 780	92		2900000 nc			NO	BSL
208-96-8	Acenaphthylene	80	J	240	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	240		19000 nc			NO	NTX
120-12-7	Anthracene	96	J	260	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	260		10000000 nc			NO	BSL
56-55-3	Benzo(a)anthracene	230	J	680	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	680		2100 ca			NO	BSL
50-32-8	Benzo(a)pyrene	120	J	730	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	730		210 ca			YES	ASL
205-99-2	Benzo(b)fluoranthene	24	J	1000	J	µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	1000		2100 ca			NO	BSL
191-24-2	Benzo(g,h,i)perylene	79	J	680	J	µg/kg	OU3-A3-SB01-0002	4/6	360 - 490	680		2900000 nc			NO	NTX
207-08-9	Benzo(k)fluoranthene	170	J	480	J	µg/kg	OU6-SO-SPDA-101-0002	4/6	360 - 780	480		21000 ca			NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	130	J	130	J	µg/kg	OU6-SO-SPDA-101-0002, OU6-SO-SPDA-101-0406	2/6	360 - 780	130		120000 ca*			NO	BSL
86-74-8	Carbazole	61	J	88	J	µg/kg	OU6-SO-SPDA-101-0608	3/6	360 - 490	88		86000 ca			NO	BSL
218-01-9	Chrysene	23	J	760	J	µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	760		210000 ca			NO	BSL

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
53-70-3	Dibenzo(a,h)anthracene	170	J	170	J	µg/kg	OU3-A3-SB01-0002	1/6	360 - 490	170		210 ca			NO	BSL
132-64-9	Dibenzofuran	40	J	70	J	µg/kg	OU6-SO-SPDA-101-0608	2/6	360 - 780	70		310000 nc			NO	BSL
84-74-2	Di-n-Butylphthalate	26	J	86	J	µg/kg	OU3-A3-SB01-0002	2/6	370 - 490	86		6200000 nc			NO	BSL
206-44-0	Fluoranthene	32	J	1400		µg/kg	OU3-A3-SB01-0002	6/6	0 - 0	1400		2200000 nc			NO	BSL
86-73-7	Fluorene	52	J	140	J	µg/kg	OU6-SO-SPDA-101-0608	3/6	360 - 490	140		2600000 nc			NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	580	J	µg/kg	OU3-A3-SB01-0002	5/6	360 - 360	580		2100 ca			NO	BSL
91-20-3	Naphthalene	37	J	57	J	µg/kg	OU6-SO-SPDA-101-0608	2/6	360 - 780	57		19000 nc	170000		NO	BSL
85-01-8	Phenanthrene	22	J	1500		µg/kg	OU6-SO-SPDA-101-0608	6/6	0 - 0	1500		10000000 nc			NO	NTX
108-95-2	Phenol	3600		3600		µg/kg	OU6-SO-SPDA-101-0204	1/3	420 - 450	3600		10000000 nc			NO	BSL
129-00-0	Pyrene	33	J	1700		µg/kg	OU6-SO-SPDA-101-0002	6/6	0 - 0	1700		2900000 nc			NO	BSL
72-55-9	4,4'-DDE	7.6	#	41	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	3.8 - 87	41	16.7	7000 ca			NO	BSL
50-29-3	4,4'-DDT	25	#	58	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	3.8 - 87	58	29.1	7000 ca*			NO	BSL
5103-71-9	alpha-Chlordane	2.3		25		µg/kg	OU6-SO-SPDA-101-0002	3/6	2 - 45	25	4.88	6500 ca	72000		NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	423		218510		µg/kg	OU6-SO-SPDA-101-0204	7/8	290 - 290	218510		1000 ca			YES	ASL
37324-23-5	Aroclor-1262	120	J	120000	*	µg/kg	OU6-SO-SPDA-101-0204	6/8	290 - 2800	120000	36.8	1000 ca			YES	ASL
11100-14-4	Aroclor-1268	150		95000	J*	µg/kg	OU6-SO-SPDA-101-0204	7/8	290 - 290	95000	46.1	1000 ca			YES	ASL
319-85-7	beta-BHC	5		5		µg/kg	OU6-SO-SPDA-101-0608	1/6	1.9 - 45	5	2.39	1300 ca	6000		NO	BSL
60-57-1	Dieldrin	9.8	#	120	#	µg/kg	OU6-SO-SPDA-101-0204	3/6	3.8 - 7	120	13.1	110 ca	1000		YES	ASL
33213-65-9	Endosulfan II	16	#	31	#	µg/kg	OU6-SO-SPDA-101-0002	2/6	3.8 - 87	31	4.72	370000 nc			NO	NTX
1031-07-8	Endosulfan Sulfate	75	#*	340	#	µg/kg	OU6-SO-SPDA-101-0204	2/6	3.8 - 18	340	4.69	370000 nc			NO	NTX
7421-93-4	Endrin Aldehyde	20	#	1000	#	µg/kg	OU6-SO-SPDA-101-0204	4/6	3.8 - 3.8	1000	4.56	18000 nc			NO	NTX
53494-70-5	Endrin Ketone	8.9		8.9		µg/kg	OU3-A3-SB01-0406	1/6	3.7 - 87	8.9	5.31	18000 nc			NO	NTX
5103-74-2	gamma-Chlordane	6.3		73	#	µg/kg	OU6-SO-SPDA-101-0204	4/6	2 - 3.6	73	2.67	6500 ca	72000		NO	NTX

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
76-44-8	Heptachlor	2.8		2.8		µg/kg	OU3-A3-SB01-0002	1/6	1.9 - 45	2.8	2.19	380 ca	4000	NO	<u>BSL</u>	
1024-57-3	Heptachlor Epoxide	2.5		9.9	#	µg/kg	OU6-SO-SPDA-101-0002	3/6	2 - 45	9.9	2.33	190 ca*	5000	NO	<u>BSL</u>	
72-43-5	Methoxychlor	39		680	#	µg/kg	OU6-SO-SPDA-101-0204	3/6	19 - 20	680	22.3	310000 nc		NO	<u>BSL</u>	
TE	Toxicity Equivalency	2.48		2.48		µg/kg	OU6-SO-SPDA-101-0204	1/1	0 - 0	2.48		0.027 ca		YES	<u>ASL</u>	
7429-90-5	Aluminum	8160		11900		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	11900	12900			NO	<u>EPA-I</u>	
7440-36-0	Antimony	2.7	J	3.2	J	mg/kg	OU3-A3-SB01-0002	2/6	0.36 - 0.69	3.2	2.86	41 nc		NO	<u>BSL</u>	
7440-38-2	Arsenic	1.7	J	9.3		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	9.3	5.67	1.6 ca*	770	YES	<u>ASL</u>	
7440-39-3	Barium	35.7		10500		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	10500	57.5	6700 nc	710000	YES	<u>ASL</u>	
7440-41-7	Beryllium	0.43		0.59		mg/kg	OU6-SO-SPDA-101-0406	3/6	0.31 - 0.44	0.59	0.719	1900 nc	1400	NO	<u>BSL</u>	
7440-43-9	Cadmium	0.66		0.92		mg/kg	OU3-A3-SB01-0002	2/6	0.045 - 0.44	0.92	0.397	45 nc	1800	NO	<u>BSL</u>	
7440-70-2	Calcium	1150		30700		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	30700	1600			NO	<u>NUT</u>	
7440-47-3	Chromium	10		105		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	105	17	64 ca	280	YES	<u>ASL</u>	
7440-48-4	Cobalt	4.8		12.9		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	12.9	6.35			NO	<u>EPA-I</u>	
7440-50-8	Copper	13		15000		mg/kg	OU6-SO-SPBG2-104-0204	23/29	200 - 300	15000	28.8			NO	<u>EPA-I</u>	
7439-89-6	Iron	11800		16500		mg/kg	OU6-SO-SPDA-101-0406	6/6	0 - 0	16500	16000			NO	<u>EPA-I</u>	
7439-92-1	Lead	18		12900		mg/kg	OU6-SO-SPDA-101-0204	29/37	100 - 100	12900	80.8	750 nc		YES	<u>ASL</u>	
7439-95-4	Magnesium	2550		34400		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	34400	3250			NO	<u>NUT</u>	
7439-96-5	Manganese	139		229		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	229	306	1900 nc		NO	<u>BSL</u>	
7439-97-6	Mercury	0.074	J	0.23	J	mg/kg	OU3-A3-SB01-0002	5/6	0.05 - 0.05	0.23	0.111	31 nc	10	NO	<u>BSL</u>	
7440-02-0	Nickel	9.3		192		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	192	12.5	2000 nc	14000	NO	<u>BSL</u>	
7440-09-7	Potassium	629		1360		mg/kg	OU6-SO-SPDA-101-0002	5/6	549 - 549	1360	961			NO	<u>NUT</u>	
7440-22-4	Silver	0.18	J	0.98		mg/kg	OU6-SO-SPDA-101-0204	5/6	0.16 - 0.16	0.98	0.508	510 nc		NO	<u>BSL</u>	
7440-23-5	Sodium	42.1		158		mg/kg	OU3-A3-SB01-0002	2/6	131 - 220	158	76.4			NO	<u>NUT</u>	

TABLE 2.7
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
LOT BEHIND 326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: LOT BEHIND 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7440-62-2	Vanadium	15.6		44		mg/kg	OU3-A3-SB01-0002	6/6	0 - 0	44	34.2	720	nc		<u>NO</u>	<u>BSL</u>
7440-66-6	Zinc	25.7		916		mg/kg	OU6-SO-SPDA-101-0204	6/6	0 - 0	916	112	10000	nc		<u>NO</u>	<u>BSL</u>
ASBESTOS	Asbestos	0.9		60		%	OU6-SO-SPDA-101-0204	30/36	0.1 - 0.1	60	1				<u>YES</u>	<u>ASL</u>

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
71-55-6	1,1,1-Trichloroethane	4		9		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/6	12 - 13	9		200000 sat	1200000	NO	BSL
67-64-1	Acetone	220		220		µg/kg	OU3-A3-SB02-1416-MAX	1/6	13 - 36	220		160000 nc		NO	BSL
75-15-0	Carbon Disulfide	2		2		µg/kg	OU3-A3-SB02-1416-MAX	1/6	12 - 18	2		36000 nc	720000	NO	BSL
75-09-2	Methylene Chloride	7		7		µg/kg	OU3-A3-SB02-1416-MAX	1/6	40 - 62	7		9100 ca	13000	NO	BSL
108-88-3	Toluene	7	J	7	J	µg/kg	SPDAC E275,S130 (9.5-10.0)	1/7	12 - 18	7		66000 sat	650000	NO	BSL
105-67-9	2,4-Dimethylphenol	280	J	11000		µg/kg	OU3-A3-SB02-0608-MAX	4/8	400 - 2000	11000		120000 nc		NO	BSL
91-57-6	2-Methylnaphthalene	230	J	1000		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	1000		5600 nc		NO	BSL
95-48-7	2-Methylphenol	82		390		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	390		310000 nc		NO	BSL
106-44-5	4-Methylphenol	160		850		µg/kg	OU3-A3-SB02-0608-MAX	3/8	400 - 2000	850		31000 nc		NO	BSL
83-32-9	Acenaphthene	33	J	990		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	990		370000 nc		NO	BSL
208-96-8	Acenaphthylene	60	J	460		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	4/8	400 - 5900	460		5600 nc		NO	BSL
120-12-7	Anthracene	130	J	2400		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	2400		2200000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	21	J	6700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	620 - 620	6700		620 ca		YES	ASL
50-32-8	Benzo(a)pyrene	310		5700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	400 - 620	5700		62 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	310		6200		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	6/8	400 - 620	6200		620 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	80		2600		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	7/8	400 - 400	2600		230000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	560	J	4700		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	5/8	400 - 620	4700		6200 ca		NO	BSL
86-74-8	Carbazole	52	J	1200		µg/kg	OU3-A3-SB02-0608-MAX	5/8	400 - 620	1200		24000 ca		NO	BSL

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
218-01-9	Chrysene	22	J	7200		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	7200		62000 ca		NO	BSL
53-70-3	Dibenz(a,h)anthracene	610		1000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	3/8	400 - 970	1000		62 ca		YES	ASL
132-64-9	Dibenzofuran	140	J	770		µg/kg	OU3-A3-SB02-0608-MAX	4/8	400 - 620	770		29000 nc		NO	BSL
84-66-2	Diethylphthalate	35		295		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/8	400 - 5900	295		4900000 nc		NO	BSL
84-74-2	Di-n-Butylphthalate	32	J	1300		µg/kg	OU3-A3-SB02-0608-MAX	6/8	2000 - 2000	1300		610000 nc		NO	BSL
206-44-0	Fluoranthene	54	J	14000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	14000		230000 nc		NO	BSL
86-73-7	Fluorene	51	J	1200		µg/kg	OU3-A3-SB02-0608-MAX	7/8	400 - 400	1200		270000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	400	J	3000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	5/8	400 - 620	3000		620 ca		YES	ASL
91-20-3	Naphthalene	330	J	1400		µg/kg	OU3-A3-SB02-0608-MAX	2/8	400 - 2000	1400		5600 nc	170000	NO	BSL
86-30-6	N-Nitroso-diphenylamine	540	J	2900		µg/kg	OU3-A3-SB02-0608-MAX	2/8	400 - 2000	2900		99000 ca		NO	BSL
85-01-8	Phenanthrene	74	J	8800		µg/kg	OU3-A3-SB02-0608-MAX	8/8	0 - 0	8800		2200000 nc		NO	BSL
108-95-2	Phenol	1700		2000		µg/kg	SPDAC E275,S130 (9.5-10.0)	3/6	490 - 2000	2000		3700000 nc		NO	BSL
129-00-0	Pyrene	39	J	18000		µg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	8/8	0 - 0	18000		230000 nc		NO	BSL
TOTPAH	Total PAH	210		80580		µg/kg	SPDAC,E325,S38(0.0-1.0)-MAX	3/3	0 - 0	80580				NO	NTX
50-29-3	4,4'-DDT	110		4600	J	µg/kg	SPD G4	2/5	4 - 32	4600	29.1	1700 ca*		YES	ASL
AROCLORTOTC	Aroclor, Total (Conservative)	368		89400		µg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	89400		220 ca		YES	ASL
12672-29-6	Aroclor-1248	310	J	1400		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	4/9	40 - 600	1400	46.1	220 ca		YES	ASL

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
11097-69-1	Aroclor-1254	330	J	1200		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	3/9	40 - 850	1200	46.1	220 ca**		YES	ASL
37324-23-5	Aroclor-1262	77	J	54000	J***	µg/kg	SPD G4	10/10	0 - 0	54000	36.8	220 ca		YES	ASL
11100-14-4	Aroclor-1268	130		52000		µg/kg	OU3-A3-SB02-0608-MAX	8/9	570 - 570	52000	46.1	220 ca		YES	ASL
959-98-8	Endosulfan I	30		30		µg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	2/9	2.1 - 44	30	4.52	37000 nc		NO	BSL
72-20-8	Endrin	92		92		µg/kg	OU3-A3-SB02-0608-MAX	1/6	4 - 85	92	4.77	1800 nc		NO	BSL
53494-70-5	Endrin Ketone	7.5		2000		µg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	2/9	32 - 85	2000	5.31	1800 nc		YES	ASL
5103-74-2	gamma-Chlordane	38		38		µg/kg	OU3-A3-SB02-0608-MAX	1/7	2.1 - 44	38	2.67	1600 ca	72000	NO	BSL
TE	Toxicity Equivalency	0.0243	J	10.539		µg/kg	OU3-A3-SB02-0608-MAX	8/8	0 - 0	10.539		0.0039 ca		YES	ASL
7429-90-5	Aluminum	3830		12100		mg/kg	SPDAC E325,S38 (0.0-1.0)-MAX, SPDAC,E325,S38(0.0-1.0)-MAX	10/10	0 - 0	12100	12900			NO	EPA-I
7440-36-0	Antimony	6.5		6.5		mg/kg	OU3-A3-SB02-0608-MAX	1/10	2.6 - 30.4	6.5	2.86	3.1 nc		YES	ASL
7440-38-2	Arsenic	1.8	J	9.7	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	9/10	5.8 - 5.8	9.7	5.67	0.39 ca*	770	YES	ASL
7440-39-3	Barium	29.5		21000		mg/kg	SPDAC-E275, S130(0.4-1.5)-MAX, SPDAC-E275,S130(0.4-1.5)-MAX	10/10	0 - 0	21000	57.5	540 nc	710000	YES	ASL
7440-41-7	Beryllium	0.29		0.87	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	0.37 - 0.38	0.87	0.719	15 nc	1400	NO	BSL
7440-43-9	Cadmium	2.4		2.4		mg/kg	OU3-A3-SB02-0608-MAX	1/10	0.47 - 2.6	2.4	0.397	3.7 nc	1800	NO	BSL
7440-70-2	Calcium	470		9330		mg/kg	SPDAC E275,S130 (3.1-3.7)	10/10	0 - 0	9330	1600			NO	NUT
7440-47-3	Chromium	9.6		227		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	227	17	30 ca	280	YES	ASL
7440-48-4	Cobalt	3.4		46.8		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	46.8	6.35			NO	EPA-I
7440-50-8	Copper	42.3	J	34600		mg/kg	SPDAC-E275,S130(0.4-1.5)-MAX	14/15	200 - 200	34600	28.8			NO	EPA-I
7439-89-6	Iron	9970		22900		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	22900	16000			NO	EPA-I

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7439-92-1	Lead	17.1	J	35400		mg/kg	OU3-A3-SB02-0608-MAX	28/30	50 - 100	35400	80.8	400	nc			YES	ASL	
7439-95-4	Magnesium	2870		95400		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	95400	3250					NO	NUT	
7439-96-5	Manganese	83.6		592	J	mg/kg	SPD H3	10/10	0 - 0	592	306	180	nc			YES	ASL	
7439-97-6	Mercury	0.18		0.51		mg/kg	SPDAC E275,S130 (9.5-10.0)	5/10	0.06 - 0.33	0.51	0.111	2.3	nc	10		NO	BSL	
7440-02-0	Nickel	9.1		580		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	580	12.5	160	nc	14000		YES	ASL	
7440-09-7	Potassium	498		2080		mg/kg	SPD G4	9/10	139 - 139	2080	961					NO	NUT	
7440-22-4	Silver	0.35	J	4.3	J	mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	2.6 - 4.6	4.3	0.508	39	nc			NO	BSL	
7440-23-5	Sodium	142		2180		mg/kg	SPDAC E275,S130 (9.5-10.0)	8/10	48.6 - 53.9	2180	76.4					NO	NUT	
7440-62-2	Vanadium	6.6		77	J	mg/kg	SPD H3	10/10	0 - 0	77	34.2	55	nc			YES	ASL	
7440-66-6	Zinc	22.4		4730		mg/kg	OU3-A3-SB02-0608-MAX	10/10	0 - 0	4730	112	2300	nc			YES	ASL	
ASBESTOS	Asbestos	0.99		80		%	SPD G4	34/35	0.1 - 0.1	80		1				YES	ASL	

TABLE 2.8
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT LOT AT HOUSATONIC AVENUE
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: VACANT LOT AT HOUSATONIC AVENUE

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
120-82-1	1,2,4-Trichlorobenzene	26	J	290		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	290		300000 nc	3200000	NO	<u>BSL</u>	
95-50-1	1,2-Dichlorobenzene	2	J	320		µg/kg	OU6-SO-SPBG1-201-0608	4/6	13 - 14	320		37000 sat	600000	NO	<u>BSL</u>	
541-73-1	1,3-Dichlorobenzene	6	J	54		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	54		6300 nc		NO	<u>BSL</u>	
106-46-7	1,4-Dichlorobenzene	49	J	490		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	490		7900 ca		NO	<u>BSL</u>	
78-93-3	2-Butanone	25		380	J	µg/kg	OU6-SO-SPBG1-201-0810	4/6	14 - 45	380		2700000 nc		NO	<u>BSL</u>	
67-64-1	Acetone	74		1100	*	µg/kg	OU6-SO-SPBG1-201-0002	5/6	45 - 45	1100		600000 nc		NO	<u>BSL</u>	
71-43-2	Benzene	2	J	11	J	µg/kg	OU6-SO-SPBG1-201-0608	4/6	13 - 14	11		1300 ca*	800	NO	<u>BSL</u>	
74-83-9	Bromomethane	48	J	48	J	µg/kg	OU6-SO-SPBG1-201-0810	1/6	13 - 45	48		1300 nc	9000	NO	<u>BSL</u>	
75-15-0	Carbon Disulfide	16	J	44	J	µg/kg	OU6-SO-SPBG1-201-0810	4/6	13 - 14	44		72000 nc	720000	NO	<u>BSL</u>	
108-90-7	Chlorobenzene	28	J	170		µg/kg	OU6-SO-SPBG1-201-0608	2/6	13 - 25	170		53000 nc	130000	NO	<u>BSL</u>	
74-87-3	Chloromethane	2	J	24	J	µg/kg	OU6-SO-SPBG1-201-0810	3/6	13 - 25	24		2600 ca		NO	<u>BSL</u>	
156-59-2	cis-1,2-Dichloroethene	2	J	2	J	µg/kg	OU6-SO-SPBG1-201-1012	1/6	13 - 45	2		15000 nc		NO	<u>BSL</u>	
110-82-7	Cyclohexane	5	J	8	J	µg/kg	OU6-SO-SPBG1-201-0406	2/6	13 - 45	8		14000 sat		NO	<u>BSL</u>	
100-41-4	Ethylbenzene	13	J	19		µg/kg	OU6-SO-SPBG1-201-1012	3/6	13 - 45	19		20000 ca	400000	NO	<u>BSL</u>	
98-82-8	Isopropylbenzene	2	J	14	J	µg/kg	OU6-SO-SPBG1-201-0406	2/6	13 - 45	14		200000 nc		NO	<u>BSL</u>	
79-20-9	Methyl Acetate	350		1800		µg/kg	OU6-SO-SPBG1-201-0204-MAX	2/6	14 - 45	1800		9200000 nc		NO	<u>BSL</u>	
1634-04-4	Methyl tert-Butyl Ether	4	J	4	J	µg/kg	OU6-SO-SPBG1-201-0406	1/6	13 - 45	4		160000 ca*		NO	<u>BSL</u>	
108-87-2	Methylcyclohexane	3	J	18	J	µg/kg	OU6-SO-SPBG1-201-0810	3/6	13 - 18	18		870000 nc		NO	<u>BSL</u>	
108-88-3	Toluene	3	J	95	J	µg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	95		52000 sat	650000	NO	<u>BSL</u>	
1330-20-7	Total Xylenes	5	J	110		µg/kg	OU6-SO-SPBG1-201-0406	4/6	13 - 14	110		42000 nc		NO	<u>BSL</u>	
106-44-5	4-Methylphenol	180	J	470		µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	470		310000 nc		NO	<u>BSL</u>	
83-32-9	Acenaphthene	43	J	680	J	µg/kg	OU6-SO-SPBG1-201-0406	3/6	430 - 860	680		2900000 nc		NO	<u>BSL</u>	
208-96-8	Acenaphthylene	77	J	260	J	µg/kg	OU6-SO-SPBG1-201-0608	5/6	5000 - 5000	260		19000 nc		NO	NTX	

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
120-12-7	Anthracene	75	J	1200	J	µg/kg	OU6-SO-SPBG1-201-0406	5/6	860 - 860	1200		10000000	nc		NO	BSL	
100-52-7	Benzaldehyde	93	JEB	310	JEB	µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	310		6200000	nc		NO	BSL	
56-55-3	Benzo(a)anthracene	290	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		2100	ca		YES	ASL	
50-32-8	Benzo(a)pyrene	370	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		210	ca		YES	ASL	
205-99-2	Benzo(b)fluoranthene	420	J	1900	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	1900		2100	ca		NO	BSL	
191-24-2	Benzo(g,h,i)perylene	83	J	810	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	810		2900000	nc		NO	NTX	
207-08-9	Benzo(k)fluoranthene	260	J	2600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2600		21000	ca		NO	BSL	
105-60-2	Caprolactam	49	J	49	J	µg/kg	OU6-SO-SPBG1-201-0002	1/6	400 - 5000	49		10000000	nc		NO	BSL	
86-74-8	Carbazole	55	J	670	J	µg/kg	OU6-SO-SPBG1-201-0406	4/6	560 - 860	670		86000	ca		NO	BSL	
218-01-9	Chrysene	380	J	2900	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	2900		210000	ca		NO	BSL	
53-70-3	Dibenzo(a,h)anthracene	80	J	290	J	µg/kg	OU6-SO-SPBG1-201-0608	3/6	400 - 5000	290		210	ca		YES	ASL	
84-74-2	Di-n-Butylphthalate	790	EB	790	EB	µg/kg	OU6-SO-SPBG1-201-0002	1/6	400 - 5000	790		6200000	nc		NO	BSL	
206-44-0	Fluoranthene	630		5400		µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	5400		2200000	nc		NO	BSL	
86-73-7	Fluorene	66	J	780	J	µg/kg	OU6-SO-SPBG1-201-0406	4/6	560 - 860	780		2600000	nc		NO	BSL	
193-39-5	Indeno(1,2,3-cd)pyrene	88	J	890	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	890		2100	ca		NO	BSL	
91-20-3	Naphthalene	57	J	530	J	µg/kg	OU6-SO-SPBG1-201-0406	3/6	430 - 860	530		19000	nc	170000	NO	BSL	
85-01-8	Phenanthrene	330	J	4800	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	4800		10000000	nc		NO	NTX	
108-95-2	Phenol	1900		4500	*	µg/kg	OU6-SO-SPBG1-201-1012	2/6	430 - 5000	4500		10000000	nc		NO	BSL	
129-00-0	Pyrene	580		4600	J	µg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	4600		2900000	nc		NO	BSL	
72-54-8	4,4'-DDD	9.9		19	#	µg/kg	OU6-SO-SPBG1-201-0608	2/6	4.4 - 6.4	19		4.6	10000	ca	NO	BSL	
72-55-9	4,4'-DDE	5.4		23	#	µg/kg	OU6-SO-SPBG1-201-0608	4/6	5.4 - 6.4	23		16.7	7000	ca	NO	BSL	
50-29-3	4,4'-DDT	9.4		30	#	µg/kg	OU6-SO-SPBG1-201-0002	2/6	5.2 - 9.2	30		29.1	7000	ca*	NO	BSL	
5103-71-9	alpha-Chlordane	13		13		µg/kg	OU6-SO-SPBG1-201-0002	1/6	2.2 - 4.7	13		4.88	6500	ca	72000	NO	NTX

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
												Screening Toxicity Value	Soil Screening Level for Inhalation			
ACROCLORTOTC	Aroclor, Total (Conservative)	253		3971		µg/kg	OU6-SO-SPBG1-201-0608	6/6	0 - 0	3971		1000 ca			YES	ASL
11096-82-5	Aroclor-1260	94		1300		µg/kg	OU6-SO-SPBG1-201-0608	4/6	43 - 64	1300	46.1	740 ca			YES	ASL
11100-14-4	Aroclor-1268	59		2400		µg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	2400	46.1	1000 ca			YES	ASL
319-85-7	beta-BHC	3.2	J	3.2	J	µg/kg	OU6-SO-SPBG1-201-1012	1/6	2.2 - 4.7	3.2	2.39	1300 ca	6000		NO	BSL
1031-07-8	Endosulfan Sulfate	4.5	#	18	#	µg/kg	OU6-SO-SPBG1-201-0608	3/6	4.3 - 6.4	18	4.69	370000 nc			NO	NTX
7421-93-4	Endrin Aldehyde	7.4	#	29	#	µg/kg	OU6-SO-SPBG1-201-0608	4/6	4.3 - 4.4	29	4.56	18000 nc			NO	NTX
5103-74-2	gamma-Chlordane	7.8		7.8		µg/kg	OU6-SO-SPBG1-201-0002	1/6	2.2 - 4.7	7.8	2.67	6500 ca	72000		NO	NTX
TE	Toxicity Equivalency	0.031		0.031		µg/kg	OU6-SO-SPBG1-201-0204-MAX	1/1	0 - 0	0.031		0.027 ca			YES	ASL
7429-90-5	Aluminum	7180		11500		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	11500	12900				NO	EPA-I
7440-38-2	Arsenic	2.4		9.6		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	9.6	5.67	1.6 ca*	770		YES	ASL
7440-39-3	Barium	58.8		634		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	634	57.5	6700 nc	710000		NO	BSL
7440-70-2	Calcium	2630	J	134000	J	mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	134000	1600				NO	NUT
7440-47-3	Chromium	17.7		28.3		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	28.3	17	64 ca	280		NO	BSL
7440-48-4	Cobalt	2.8		6.8		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	6.8	6.35				NO	EPA-I
7440-50-8	Copper	43.4		635		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	635	28.8				NO	EPA-I
7439-89-6	Iron	9630		19400		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	19400	16000				NO	EPA-I
7439-92-1	Lead	66.4		731		mg/kg	OU6-SO-SPBG1-201-0810	6/6	0 - 0	731	80.8	750 nc			NO	BSL
7439-95-4	Magnesium	3590		15900		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	15900	3250				NO	NUT
7439-96-5	Manganese	138		292		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	292	306	1900 nc			NO	BSL
7439-97-6	Mercury	0.074	J	0.38		mg/kg	OU6-SO-SPBG1-201-0406	5/6	0.13 - 0.13	0.38	0.111	31 nc	10		NO	BSL
7440-02-0	Nickel	16		64.5		mg/kg	OU6-SO-SPBG1-201-0406	6/6	0 - 0	64.5	12.5	2000 nc	14000		NO	BSL
7440-09-7	Potassium	530		1820		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	1820	961				NO	NUT
7440-23-5	Sodium	117	J	1020		mg/kg	OU6-SO-SPBG1-201-0608	6/6	0 - 0	1020	76.4				NO	NUT

TABLE 2.9
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
326 FERRY BOULEVARD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 FERRY BOULEVARD

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	(2) Concentration Used for Screening	Background Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-62-2	Vanadium	15.6	J	32.8		mg/kg	OU6-SO-SPBG1-201-0002	6/6	0 - 0	32.8	34.2	720 nc		NO	BSL
7440-66-6	Zinc	57.5	J	112		mg/kg	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	112	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9		8		%	OU6-SO-SPBG1-201-0204-MAX	6/6	0 - 0	8	1			YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	5	J	45	J	µg/kg	OU6-SO-PP-101-0810	5/7	12 - 21	45		2700000	nc		NO	BSL	
67-64-1	Acetone	42		210		µg/kg	OU6-SO-PP-101-0810	3/7	12 - 210	210		600000	nc		NO	BSL	
71-43-2	Benzene	3	J	3	J	µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	3		1300	ca*	800	NO	BSL	
75-15-0	Carbon Disulfide	1	J	16	J	µg/kg	OU6-SO-PP-101-0810	5/7	12 - 21	16		72000	nc	720000	NO	BSL	
108-90-7	Chlorobenzene	5	J	32	J	µg/kg	OU3-A1-SB03-0608-MAX	2/7	8 - 20	32		530000	nc	130000	NO	BSL	
100-41-4	Ethylbenzene	12	J	12	J	µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	12		20000	ca	400000	NO	BSL	
79-20-9	Methyl Acetate	7	J	7	J	µg/kg	OU6-SO-PP-101-0810	1/5	8 - 15	7		9200000	nc		NO	BSL	
75-09-2	Methylene Chloride	4	J	4	J	µg/kg	OU6-SO-PP-101-0002	1/7	10 - 26	4		21000	ca	13000	NO	BSL	
108-88-3	Toluene	2	J	250	J	µg/kg	OU3-A1-SB03-0608-MAX	5/7	8 - 12	250		52000	sat	650000	NO	BSL	
1330-20-7	Total Xylenes	100		100		µg/kg	OU3-A1-SB03-0608-MAX	1/7	8 - 20	100		42000	nc		NO	BSL	
79-01-6	Trichloroethene	2	J	2	J	µg/kg	OU6-SO-PP-101-0406	1/7	8 - 21	2		110	ca	5000	NO	BSL	
105-67-9	2,4-Dimethylphenol	26	J	3800	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 6000	3800		1200000	nc		NO	BSL	
91-57-6	2-Methylnaphthalene	30	J	87	J	µg/kg	OU3-A1-SB11-0002	2/12	350 - 15000	87		19000	nc		NO	NTX	
95-48-7	2-Methylphenol	210	J	390	J	µg/kg	OU3-A1-SB11-0002	4/12	350 - 15000	390		3100000	nc		NO	BSL	
91-94-1	3,3'-Dichlorobenzidine	540	J	540	J	µg/kg	MFP-5	1/12	350 - 15000	540		3800	ca		NO	BSL	
106-44-5	4-Methylphenol	40	J	620	J	µg/kg	MFP-5	8/12	380 - 15000	620		310000	nc		NO	BSL	
100-02-7	4-Nitrophenol	80	J	80	J	µg/kg	OU3-A1-SB11-0002	1/12	880 - 38000	80		700000	nc		NO	BSL	
83-32-9	Acenaphthene	26	J	890	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 4500	890		2900000	nc		NO	BSL	
208-96-8	Acenaphthylene	23	J	280	J	µg/kg	OU6-SO-PP-101-0810	5/12	380 - 15000	280		19000	nc		NO	NTX	
120-12-7	Anthracene	33	J	1200	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 4500	1200		10000000	nc		NO	BSL	
100-52-7	Benzaldehyde	26	JEB	130	JEB	µg/kg	OU6-SO-PP-101-0204	3/4	350 - 350	130		6200000	nc		NO	BSL	
56-55-3	Benzo(a)anthracene	40	J	3200	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	3200		2100	ca		YES	ASL	
50-32-8	Benzo(a)pyrene	41	J	2000	J	µg/kg	MFP-5, OU3-A1-SB03-0608-MAX	12/12	0 - 0	2000		210	ca		YES	ASL	

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
205-99-2	Benzo(b)fluoranthene	40	J	2900	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	2900		2100	ca		<u>YES</u>	<u>ASL</u>
191-24-2	Benzo(g,h,i)perylene	110	J	600	J	µg/kg	MF-SO-SB6-0204	9/12	380 - 15000	600		2900000	nc		<u>NO</u>	<u>NTX</u>
207-08-9	Benzo(k)fluoranthene	37	J	3000	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	4500 - 4500	3000		21000	ca		<u>NO</u>	<u>BSL</u>
117-81-7	bis(2-Ethylhexyl)phthalate	1500		1500		µg/kg	OU3-A1-SB11-0002	1/12	350 - 15000	1500		120000	ca*		<u>NO</u>	<u>BSL</u>
85-68-7	Butylbenzylphthalate	32	J	470	J	µg/kg	OU6-SO-PP-101-0204	2/12	380 - 15000	470		10000000	nc		<u>NO</u>	<u>BSL</u>
86-74-8	Carbazole	26	J	970	J	µg/kg	OU3-A1-SB03-0608-MAX	7/12	380 - 4500	970		86000	ca		<u>NO</u>	<u>BSL</u>
218-01-9	Chrysene	51	J	11000	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	11000		210000	ca		<u>NO</u>	<u>BSL</u>
53-70-3	Dibenzo(a,h)anthracene	36	J	210	J	µg/kg	OU6-SO-PP-101-0810	4/12	380 - 15000	210		210	ca		<u>NO</u>	<u>BSL</u>
132-64-9	Dibenzofuran	34	J	480	J	µg/kg	MFP-5	5/12	350 - 15000	480		310000	nc		<u>NO</u>	<u>BSL</u>
84-66-2	Diethylphthalate	54	J	54	J	µg/kg	OU3-A1-SB11-0002	1/12	350 - 15000	54		10000000	nc		<u>NO</u>	<u>BSL</u>
131-11-3	Dimethylphthalate	150	J	280	J	µg/kg	MFP-1	2/12	350 - 15000	280		10000000	max		<u>NO</u>	<u>BSL</u>
84-74-2	Di-n-Butylphthalate	32		1200	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 4500	1200		6200000	nc		<u>NO</u>	<u>BSL</u>
206-44-0	Fluoranthene	86	J	8600	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	8600		2200000	nc		<u>NO</u>	<u>BSL</u>
86-73-7	Fluorene	43	J	1200	J	µg/kg	OU3-A1-SB03-0608-MAX	5/12	350 - 4500	1200		2600000	nc		<u>NO</u>	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	27	J	1400	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	1400		2100	ca		<u>NO</u>	<u>BSL</u>
91-20-3	Naphthalene	28	J	1100	J	µg/kg	OU3-A1-SB03-0608-MAX	6/12	350 - 6000	1100		19000	nc	170000	<u>NO</u>	<u>BSL</u>
86-30-6	N-Nitroso-diphenylamine	36	J	1300	J	µg/kg	OU3-A1-SB03-0608-MAX	4/12	350 - 6000	1300		350000	ca		<u>NO</u>	<u>BSL</u>
87-86-5	Pentachlorophenol	30	J	30	J	µg/kg	OU3-A1-SB11-0002	1/12	880 - 38000	30		9000	ca		<u>NO</u>	<u>BSL</u>
85-01-8	Phenanthrene	50	J	9400	J	µg/kg	OU3-A1-SB03-0608-MAX	12/12	0 - 0	9400		10000000	nc		<u>NO</u>	<u>NTX</u>
108-95-2	Phenol	120	JEB	2200		µg/kg	MFP-2	8/12	380 - 15000	2200		10000000	nc		<u>NO</u>	<u>BSL</u>
129-00-0	Pyrene	110	J	8700	J	µg/kg	OU3-A1-SB03-0608-MAX	11/12	660 - 660	8700		2900000	nc		<u>NO</u>	<u>BSL</u>
TOTPAH	Total PAH	843		54590		µg/kg	OU3-A1-SB03-0608-MAX	2/2	0 - 0	54590					<u>NO</u>	<u>NTX</u>
72-54-8	4,4'-DDD	8.3	J	11		µg/kg	OU6-SO-PP-101-0810	2/14	3.8 - 94	11		4.6	10000	ca	<u>NO</u>	<u>BSL</u>

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
72-55-9	4,4'-DDE	8		2400	*	µg/kg	OU6-SO-PP-101-0204	7/14	3.8 - 94	2400	16.7	7000 ca			NO	BSL
50-29-3	4,4'-DDT	24		37		µg/kg	OU6-SO-PP-101-0608	2/13	3.8 - 94	37	29.1	7000 ca*			NO	BSL
5103-71-9	alpha-Chlordane	2.4		76		µg/kg	OU6-SO-PP-101-0204	6/14	2 - 31	76	4.88	6500 ca			NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	259.5		413300		µg/kg	MFP-5	14/14	0 - 0	413300		1000 ca			YES	ASL
11097-69-1	Aroclor-1254	1300		210000	*	µg/kg	OU6-SO-PP-101-0204	4/14	38 - 3300	210000	46.1	740 ca**			YES	ASL
37324-23-5	Aroclor-1262	150		130000	J	µg/kg	MFP-5	13/14	39 - 39	130000	36.8	1000 ca			YES	ASL
11100-14-4	Aroclor-1268	87		270000		µg/kg	MFP-5	14/14	0 - 0	270000	46.1	1000 ca			YES	ASL
319-85-7	beta-BHC	4.4	J	4.4	J	µg/kg	MFP-2	1/14	2 - 49	4.4	2.39	1300 ca	6000		NO	BSL
319-86-8	delta-BHC	9.2	J	9.2	J	µg/kg	PP EF+100	1/14	2 - 49	9.2	2.32	1300 ca*			NO	NTX
60-57-1	Dieldrin	6.7		3000	*	µg/kg	OU6-SO-PP-101-0204	6/14	3.8 - 94	3000	13.1	110 ca	1000		YES	ASL
959-98-8	Endosulfan I	66	J	66	J	µg/kg	PP EF+100	1/14	2 - 49	66	4.52	370000 nc			NO	NTX
33213-65-9	Endosulfan II	22		22		µg/kg	OU3-A1-SB11-0002	1/14	3.8 - 94	22	4.72	370000 nc			NO	NTX
1031-07-8	Endosulfan Sulfate	320	*#	5500	*#	µg/kg	OU6-SO-PP-101-0204	5/14	3.8 - 94	5500	4.69	370000 nc			NO	NTX
72-20-8	Endrin	80		80		µg/kg	OU6-SO-PP-101-0204	1/14	3.8 - 94	80	4.77	18000 nc			NO	BSL
7421-93-4	Endrin Aldehyde	7.8		5400	*#	µg/kg	OU6-SO-PP-101-0204	6/14	3.8 - 350	5400	4.56	18000 nc			NO	NTX
53494-70-5	Endrin Ketone	12		12		µg/kg	OU3-A1-SB11-0002	1/14	3.8 - 94	12	5.31	18000 nc			NO	NTX
5103-74-2	gamma-Chlordane	9.7	J	130	J	µg/kg	MFP-5	3/13	2 - 25	130	2.67	6500 ca	72000		NO	NTX
76-44-8	Heptachlor	12	J	12	J	µg/kg	PP EF+100	1/14	2 - 49	12	2.19	380 ca	4000		NO	BSL
1024-57-3	Heptachlor Epoxide	9		14	J	µg/kg	MF-SO-SB6-0204	3/14	2 - 31	14	2.33	190 ca*	5000		NO	BSL
72-43-5	Methoxychlor	44		1100		µg/kg	OU6-SO-PP-101-0204	3/14	20 - 490	1100	22.3	310000 nc			NO	BSL
TE	Toxicity Equivalency	0.012	J	16.794	J	µg/kg	MFP-5	11/11	0 - 0	16.794		0.027 ca			YES	ASL
7429-90-5	Aluminum	2950		18900	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	18900	12900				NO	EPA-I
7440-36-0	Antimony	1.3	J	17.8	J	mg/kg	OU6-SO-PP-101-0204	5/7	1.6 - 5.9	17.8	2.86	41 nc			NO	BSL

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-38-2	Arsenic	0.9		21.9		mg/kg	OU3-A1-SB11-0002	13/14	1.6 - 1.6	21.9	5.67	1.6 ca*	770	YES	ASL	
7440-39-3	Barium	29.4		17000		mg/kg	MFP-5	14/14	0 - 0	17000	57.5	6700 nc	710000	YES	ASL	
7440-41-7	Beryllium	0.23		0.86		mg/kg	PP EF+100	10/14	0.21 - 0.28	0.86	0.719	1900 nc	1400	NO	BSL	
7440-43-9	Cadmium	0.19		27.7		mg/kg	OU6-SO-PP-101-0204	11/14	0.085 - 1.2	27.7	0.397	45 nc	1800	NO	BSL	
7440-70-2	Calcium	570	J	10700		mg/kg	MF-SO-SB6-0204	14/14	0 - 0	10700	1600			NO	NUT	
7440-47-3	Chromium	6.3		906		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	906	17	64 ca	280	YES	ASL	
7440-48-4	Cobalt	1.8		74.6		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	74.6	6.35			NO	EPA-I	
7440-50-8	Copper	14		59400	J	mg/kg	OU6-SO-PP-101-0204	26/28	300 - 300	59400	28.8			NO	EPA-I	
7439-89-6	Iron	6600		199000		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	199000	16000			NO	EPA-I	
7439-92-1	Lead	10		24700		mg/kg	MFP-5	37/41	9 - 100	24700	80.8	750 nc		YES	ASL	
7439-95-4	Magnesium	1300		81600		mg/kg	MFP-1	14/14	0 - 0	81600	3250			NO	NUT	
7439-96-5	Manganese	48.8		1020	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	1020	306	1900 nc		NO	BSL	
7439-97-6	Mercury	0.07	J	0.93		mg/kg	OU6-SO-PP-101-0204	8/14	0.05 - 0.076	0.93	0.111	31 nc	10	NO	BSL	
7440-02-0	Nickel	4.4		530		mg/kg	MFP-1	14/14	0 - 0	530	12.5	2000 nc	14000	NO	BSL	
7440-09-7	Potassium	565		2420		mg/kg	OU6-SO-PP-101-0002	11/14	266 - 736	2420	961			NO	NUT	
7782-49-2	Selenium	1.1	J	10.8		mg/kg	OU6-SO-PP-101-0204	5/14	0.52 - 5.5	10.8	0.499	510 nc		NO	BSL	
7440-22-4	Silver	0.23	J	41.8		mg/kg	OU6-SO-PP-101-0204	10/14	0.23 - 1.6	41.8	0.508	510 nc		NO	BSL	
7440-23-5	Sodium	104		42500		mg/kg	MFP-5	10/14	108 - 336	42500	76.4			NO	NUT	
7440-28-0	Thallium	3.6	J	13.2	J	mg/kg	OU6-SO-PP-101-0204	2/14	0.42 - 3.2	13.2	0.368	6.7 nc		YES	ASL	
7440-62-2	Vanadium	11.5	J	131		mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	131	34.2	720 nc		NO	BSL	
7440-66-6	Zinc	27.2		4450	J	mg/kg	OU6-SO-PP-101-0204	14/14	0 - 0	4450	112	10000 nc		NO	BSL	
ASBESTOS	Asbestos	0.99		90		%	MFP-5	40/41	0.1 - 0.1	90		1		YES	ASL	

TABLE 2.10
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
576 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	44		44		µg/kg	MF-SO-MW102-0406-MAX	1/10	11 - 110	44		120000	sat	1200000	NO	BSL
75-34-3	1,1-Dichloroethane	5	J	150		µg/kg	MF-SO-MW103-0810-MAX	3/10	11 - 110	150		170000	nc	1200000	NO	BSL
540-59-0	1,2-Dichloroethene (total)	11	J	66		µg/kg	MF-SO-MW103-0810-MAX	2/10	11 - 110	66		4300	nc		NO	NTX
78-93-3	2-Butanone	250		250		µg/kg	MF-SO-SB7-1416-MAX	1/10	11 - 110	250		2700000	nc		NO	BSL
67-64-1	Acetone	51	J	810		µg/kg	MF-SO-SB7-1416-MAX	3/10	13 - 240	810		600000	nc		NO	BSL
75-15-0	Carbon Disulfide	10	J	130		µg/kg	MF-SO-MW103-1416	3/10	11 - 19	130		72000	nc	720000	NO	BSL
127-18-4	Tetrachloroethylene	26		29	J	µg/kg	MF-SO-MW103-0810-MAX	2/10	11 - 110	29		3400	ca*	10000	NO	BSL
79-01-6	Trichloroethylene	5	J	120		µg/kg	MF-SO-MW103-0810-MAX	3/10	11 - 110	120		110	ca	5000	YES	ASL
105-67-9	2,4-Dimethylphenol	240	J	2200	J	µg/kg	MF-SO-MW103-0810-MAX	7/14	410 - 12000	2200		1200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	37	J	460		µg/kg	MF-SO-MW102-0406-MAX	8/14	410 - 12000	460		19000	nc		NO	NTX
95-48-7	2-Methylphenol	110	J	790		µg/kg	MF-SO-MW102-0406-MAX	8/14	410 - 12000	790		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	210	J	4800	J	µg/kg	MF-SO-MW103-0810-MAX	9/14	410 - 12000	4800		310000	nc		NO	BSL
100-02-7	4-Nitrophenol	460	J	460	J	µg/kg	MF-SO-MW103-0810-MAX	1/14	920 - 30000	460		700000	nc		NO	BSL
83-32-9	Acenaphthene	74	J	290	J	µg/kg	MF-SO-SB7-0406	5/14	370 - 12000	290		2900000	nc		NO	BSL
208-96-8	Acenaphthylene	31	J	830	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	830		19000	nc		NO	NTX
120-12-7	Anthracene	26	J	1300	J	µg/kg	MF-SO-SB7-0406	7/14	370 - 12000	1300		10000000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	74	J	3600		µg/kg	MF-SO-SB7-1416-MAX	7/14	410 - 12000	3600		2100	ca		YES	ASL
50-32-8	Benzo(a)pyrene	88	J	2500	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2500		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	96	J	5000		µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	5000		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	63	J	2100	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2100		2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	76	J	860		µg/kg	MFP-6-MAX	7/14	410 - 12000	860		21000	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	110	J	3900		µg/kg	MF-SO-MW102-0406-MAX	7/14	410 - 12000	3900		120000	ca*		NO	BSL
85-68-7	Butylbenzylphthalate	50	J	50	J	µg/kg	MF-SO-SB2-1416	1/14	370 - 12000	50		10000000	nc		NO	BSL
86-74-8	Carbazole	50	J	680	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	680		86000	ca		NO	BSL

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
218-01-9	Chrysene	150	J	3400		µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	3400		210000 ca		NO	<u>BSL</u>
53-70-3	Dibenz(a,h)anthracene	47	J	170		µg/kg	MFP-6-MAX	3/14	410 - 12000	170		210 ca		NO	<u>BSL</u>
132-64-9	Dibenzofuran	50	J	910	J	µg/kg	MF-SO-SB7-0406	4/14	370 - 12000	910		310000 nc		NO	<u>BSL</u>
84-66-2	Diethylphthalate	62	JTB	62	JTB	µg/kg	OU3-A1-SS01-0204	1/14	370 - 12000	62		10000000 nc		NO	<u>BSL</u>
131-11-3	Dimethylphthalate	67	J	460		µg/kg	MF-SO-MW102-0406-MAX	4/14	370 - 12000	460		10000000 max		NO	<u>BSL</u>
84-74-2	Di-n-Butylphthalate	55	J	620	J	µg/kg	MF-SO-TP2-0506	6/14	370 - 12000	620		6200000 nc		NO	<u>BSL</u>
117-84-0	Di-n-octylphthalate	72	J	310		µg/kg	MFP-6-MAX	2/14	370 - 12000	310		2500000 nc		NO	<u>BSL</u>
206-44-0	Fluoranthene	46	J	8800	J	µg/kg	MF-SO-SB7-1416-MAX	9/14	630 - 4100	8800		2200000 nc		NO	<u>BSL</u>
86-73-7	Fluorene	84	J	830	J	µg/kg	MF-SO-SB7-0406	6/14	370 - 12000	830		2600000 nc		NO	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	65	J	2200	J	µg/kg	MF-SO-SB7-1416-MAX	10/14	410 - 12000	2200		2100 ca		YES	<u>ASL</u>
91-20-3	Naphthalene	51	J	440	J	µg/kg	MF-SO-MW103-0810-MAX	9/14	410 - 12000	440		19000 nc	170000	NO	<u>BSL</u>
86-30-6	N-Nitroso-diphenylamine	140	J	190	J	µg/kg	MF-SO-SB7-1416-MAX	2/14	370 - 12000	190		350000 ca		NO	<u>BSL</u>
85-01-8	Phenanthrene	180	J	8100	J	µg/kg	MF-SO-SB7-0406	10/14	410 - 12000	8100		1000000 nc		NO	<u>NTX</u>
108-95-2	Phenol	480	J	6100		µg/kg	MFP-6-MAX	7/14	410 - 12000	6100		1000000 nc		NO	<u>BSL</u>
129-00-0	Pyrene	160	J	8300	J	µg/kg	MF-SO-SB7-1416-MAX	11/14	410 - 4100	8300		2900000 nc		NO	<u>BSL</u>
TOTPAH	Total PAH	1567		42630		µg/kg	MF-SO-SB7-1416-MAX	5/5	0 - 0	42630				NO	<u>NTX</u>
72-54-8	4,4'-DDD	3.9	J	3.9	J	µg/kg	MF-SO-SB7-0406	1/15	3.6 - 89	3.9	4.6	10000 ca		NO	<u>BSL</u>
72-55-9	4,4'-DDE	3.3	J	66	J	µg/kg	MF-SO-SB7-1416-MAX	3/14	3.6 - 62	66	16.7	7000 ca		NO	<u>BSL</u>
309-00-2	Aldrin	0.98	J	37	J	µg/kg	MF-SO-SB7-1416-MAX	3/15	1.8 - 32	37	2.41	100 ca*	3000	NO	<u>BSL</u>
319-84-6	alpha-BHC	0.76	J	0.76	J	µg/kg	MF A+400	1/15	1.8 - 46	0.76	2.41	360 ca	700	NO	<u>BSL</u>
5103-71-9	alpha-Chlordane	1.2	J	31	J	µg/kg	MF-SO-SB7-1416-MAX	6/15	1.8 - 32	31	4.88	6500 ca	72000	NO	<u>NTX</u>
AROCLORTOTC	Aroclor, Total (Conservative)	356.5		97525		µg/kg	MF-SO-SB7-1416-MAX	15/15	0 - 0	97525		1000 ca		YES	<u>ASL</u>
12672-29-6	Aroclor-1248	190		650		µg/kg	MF-SO-MW103-0810-MAX	3/15	49 - 890	650	46.1	740 ca		NO	<u>BSL</u>
11097-69-1	Aroclor-1254	8400	*J	8400	*J	µg/kg	MF-SO-SB7-1416-MAX	1/15	36 - 620	8400	46.1	740 ca**		YES	<u>ASL</u>

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
11096-82-5	Aroclor-1260	650		650		µg/kg	MF-SO-MW103-0810-MAX	1/15	36 - 890	650	46.1	740	ca		NO	BSL
37324-23-5	Aroclor-1262	76	J	36000	*J	µg/kg	MF-SO-SB7-1416-MAX	13/14	77 - 77	36000	36.8	1000	ca		YES	ASL
11100-14-4	Aroclor-1268	34	J	50000	*J	µg/kg	MF-SO-SB7-1416-MAX	15/15	0 - 0	50000	46.1	1000	ca		YES	ASL
319-85-7	beta-BHC	3.5	J	3.5	J	µg/kg	MF-SO-SB4-1214	1/13	1.8 - 46	3.5	2.39	1300	ca	6000	NO	BSL
319-86-8	delta-BHC	4		4		µg/kg	MFP-6-MAX	1/15	1.8 - 46	4	2.32	1300	ca*		NO	NTX
60-57-1	Dieldrin	8.2	J	23	J	µg/kg	MF-SO-SB7-1416-MAX	2/15	3.6 - 46	23	13.1	110	ca	1000	NO	BSL
959-98-8	Endosulfan I	1.4	J	11	J	µg/kg	MF-SO-SB7-0406, MF-SO-SB7-1416-MAX	4/15	1.8 - 32	11	4.52	370000	nc		NO	NTX
33213-65-9	Endosulfan II	5.2	J	5.2	J	µg/kg	MF A+400	1/15	3.6 - 89	5.2	4.72	370000	nc		NO	NTX
1031-07-8	Endosulfan Sulfate	2.1	J	10	J	µg/kg	MF-SO-SB7-0406	2/15	3.6 - 89	10	4.69	370000	nc		NO	NTX
72-20-8	Endrin	0.71	J	5.7		µg/kg	MF-SO-MW102-0406-MAX	2/15	3.6 - 89	5.7	4.77	18000	nc		NO	BSL
7421-93-4	Endrin Aldehyde	8.9	J	18	J	µg/kg	MF-SO-SB7-0406	4/15	4.9 - 89	18	4.56	18000	nc		NO	NTX
5103-74-2	gamma-Chlordane	1.2	J	67	J	µg/kg	MF-SO-SB7-1416-MAX	6/13	1.8 - 17	67	2.67	6500	ca	72000	NO	NTX
76-44-8	Heptachlor	1.2	J	1.2	J	µg/kg	MF A+400	1/15	1.8 - 46	1.2	2.19	380	ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	1.7	J	63	J	µg/kg	MF-SO-SB7-1416-MAX	3/13	1.8 - 32	63	2.33	190	ca*	5000	NO	BSL
72-43-5	Methoxychlor	17	J	17	J	µg/kg	MF A+400	1/15	18 - 460	17	22.3	310000	nc		NO	BSL
TE	Toxicity Equivalency	0.00068	J	1.03	J	µg/kg	MF-SO-SB4-0204	8/12	0.249673 - 0.6084675	1.03		0.027	ca		YES	ASL
7429-90-5	Aluminum	1160		19600		mg/kg	MF-SO-MW103-1416	17/17	0 - 0	19600	12900				NO	EPA-I
7440-36-0	Antimony	4.2	J	16.5	J	mg/kg	MF A+400	2/15	1.2 - 7.2	16.5	2.86	41	nc		NO	BSL
7440-38-2	Arsenic	4.4	J	263	J	mg/kg	MF-SO-SB2-1416	17/17	0 - 0	263	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	50.1		10900		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	10900	57.5	6700	nc	710000	YES	ASL
7440-41-7	Beryllium	0.29		2		mg/kg	MF-SO-SB2-1416	8/17	0.18 - 0.8	2	0.719	1900	nc	1400	NO	BSL
7440-43-9	Cadmium	4.4		6.3		mg/kg	MF A+400	3/15	0.22 - 3.3	6.3	0.397	45	nc	1800	NO	BSL
7440-70-2	Calcium	647		9720	J	mg/kg	MF-SO-SB7-0406	16/17	1930 - 1930	9720	1600				NO	NUT

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7440-47-3	Chromium	12.5		240		mg/kg	MF A+400	17/17	0 - 0	240	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	5.2		27.9		mg/kg	MF A+400	17/17	0 - 0	27.9	6.35				NO	EPA-I
7440-50-8	Copper	21		97900		mg/kg	MF-SO-MW103-0608	35/40	150 - 200	97900	28.8				NO	EPA-I
7439-89-6	Iron	16000		89900		mg/kg	MF-SO-MW103-0810-MAX	17/17	0 - 0	89900	16000				NO	EPA-I
7439-92-1	Lead	9		25600	J	mg/kg	MF-SO-MW103-0608	68/81	9 - 100	25600	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	421		68600		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	68600	3250				NO	NUT
7439-96-5	Manganese	21.7		442		mg/kg	MF-SO-MW103-0810-MAX	17/17	0 - 0	442	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.17	J	3.2		mg/kg	MF-SO-SB2-1416	12/17	0.05 - 0.21	3.2	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	14.3	J	566		mg/kg	MF-SO-MW103-0608	17/17	0 - 0	566	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	401		3260		mg/kg	MF-SO-MW103-1416	14/17	255 - 421	3260	961				NO	NUT
7782-49-2	Selenium	0.52	J	8.8		mg/kg	MF-SO-SB2-1416	8/17	0.79 - 3.2	8.8	0.499	510	nc		NO	BSL
7440-22-4	Silver	0.78	J	7.2	J	mg/kg	MF-SO-MW103-0608	10/17	0.5 - 1.5	7.2	0.508	510	nc		NO	BSL
7440-23-5	Sodium	211		2730		mg/kg	MF-SO-MW103-1416	5/17	47.5 - 1160	2730	76.4				NO	NUT
7440-28-0	Thallium	1.5		4.5		mg/kg	MF-SO-TP2-0506	2/17	0.49 - 3.5	4.5	0.368	6.7	nc		NO	BSL
7440-62-2	Vanadium	10.8	, J	97.5	J	mg/kg	OU3-A1-SS01-0002-MAX	17/17	0 - 0	97.5	34.2	720	nc		NO	BSL
7440-66-6	Zinc	41.3		24000	J	mg/kg	MF-SO-MW103-0608	17/17	0 - 0	24000	112	10000	nc		YES	ASL
ASBESTOS	Asbestos	0.9		85		%	MF-SO-MW103-1012	69/80	0.1 - 0.1	85		1			YES	ASL

TABLE 2.11
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
600 EAST BROADWAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 EAST BROADWAY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

Background values are the average of off-site background concentrations.

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

J = Estimated Value

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

EB = present in equipment blank

Frequent Detection (FD)

* = From dilution analysis or estimated maximum possible concentration

Toxicity Information Available (TX)

= Possible false positive due to interference

Above Screening Levels (ASL)

ca = Carcinogenic

Deletion Reason: Infrequent Detection (IFD)

ca* = where nc < 100X ca

Background Levels (BKG)

ca** = where nc < 10X ca

No Toxicity Information (NTX)

nc = Non-Carcinogenic

Essential Nutrient (NUT)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Below Screening Level (BSL)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	(4) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
71-55-6	1,1,1-Trichloroethane	2	J	2	J	µg/kg	OU6-SO-VPA95-106-0204	1/11	4 - 22	2		120000	sat	1200000	NO	BSL
75-34-3	1,1-Dichloroethane	190		190		µg/kg	OU6-SO-VPA95-106-0406	1/11	4 - 22	190		170000	nc	1200000	NO	BSL
75-35-4	1,1-Dichloroethene	57		57		µg/kg	OU6-SO-VPA95-106-0406	1/11	4 - 22	57		41000	nc	70	NO	BSL
78-93-3	2-Butanone	2	J	52		µg/kg	OU2-SO-503-0204-MAX	11/11	0 - 0	52		2700000	nc		NO	BSL
67-64-1	Acetone	120	J	270	J	µg/kg	OU3-A1-SB07-0608	4/11	15 - 94	270		600000	nc		NO	BSL
71-43-2	Benzene	0.5	J	13	J	µg/kg	OU6-SO-VPA95-106-0406	3/11	6 - 22	13		1300	ca*	800	NO	BSL
74-83-9	Bromomethane	2		3		µg/kg	OU6-SO-VPA95-106-0002	2/11	4 - 22	3		1300	nc	9000	NO	BSL
75-15-0	Carbon Disulfide	2	J	76		µg/kg	OU6-SO-VPA95-106-0204	8/11	6 - 22	76		72000	nc	720000	NO	BSL
67-66-3	Chloroform	1	J	1	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	1		1200	ca/nc	300	NO	BSL
74-87-3	Chloromethane	0.8	J	0.8	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	0.8		2600	ca		NO	BSL
156-59-2	cis-1,2-Dichloroethene	3		260		µg/kg	OU6-SO-VPA95-106-0406	2/9	4 - 21	260		15000	nc		NO	BSL
110-82-7	Cyclohexane	4	J	4	J	µg/kg	OU2-SO-503-0608	1/9	4 - 21	4		14000	sat		NO	BSL
79-20-9	Methyl Acetate	15	J	15	J	µg/kg	OU6-SO-VPA95-106-0002	1/9	4 - 21	15		9200000	nc		NO	BSL
108-87-2	Methylcyclohexane	2	J	2	J	µg/kg	OU2-SO-503-0608	1/9	4 - 21	2		870000	nc		NO	BSL
75-09-2	Methylene Chloride	2	J	2	J	µg/kg	OU2-SO-503-0002	1/11	4 - 22	2		21000	ca	13000	NO	BSL
127-18-4	Tetrachloroethene	1	J	1	J	µg/kg	OU6-SO-VPA95-106-0204	1/11	4 - 22	1		3400	ca*	10000	NO	BSL
108-88-3	Toluene	0.9	J	8	J	µg/kg	OU6-SO-VPA95-106-0002	4/11	4 - 22	8		52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	1	J	1	J	µg/kg	OU2-SO-503-0608	1/11	4 - 22	1		42000	nc		NO	BSL
156-60-5	trans-1,2-Dichloroethene	17	J	17	J	µg/kg	OU6-SO-VPA95-106-0406	1/9	4 - 21	17		23000	nc		NO	BSL
79-01-6	Trichloroethene	2		2		µg/kg	OU2-SO-503-0204-MAX	1/11	4 - 22	2		110	ca	5000	NO	BSL
75-01-4	Vinyl Chloride	6	J	41		µg/kg	OU6-SO-VPA95-106-0406	2/11	4 - 21	41		750	ca	600	NO	BSL
105-67-9	2,4-Dimethylphenol	160	J	160	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	160		1200000	nc		NO	BSL
95-48-7	2-Methylphenol	380	J	380	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	380		3100000	nc		NO	BSL
106-44-5	4-Methylphenol	370	J	370	J	µg/kg	OU3-A1-SB07-0608	1/10	370 - 2500	370		310000	nc		NO	BSL
208-96-8	Acenaphthylene	160	J	740	J	µg/kg	OU3-A1-SB07-0608	6/11	400 - 2500	740		19000	nc		NO	BSL
120-12-7	Anthracene	120	J	580	J	µg/kg	OU3-A1-SB07-0608	6/11	400 - 2500	580		10000000	nc		NO	BSL
100-52-7	Benzaldehyde	46	JEB	46	JEB	µg/kg	OU6-SO-VPA95-106-0406	1/7	340 - 2500	46		6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	36	J	1900	J	µg/kg	OU3-A1-SB07-0608	8/8	0 - 0	1900		2100	ca		NO	BSL
50-32-8	Benzo(a)pyrene	41	J	2300	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2300		210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	41	J	3300		µg/kg	OU3-A1-SS05-0204	9/11	460 - 580	3300		2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	46	J	2000	J	µg/kg	OU3-A1-SB07-0608	8/11	400 - 580	2000		2900000	nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	40	J	2200	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2200		21000	ca		NO	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAl INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
117-81-7	bis(2-Ethylhexyl)phthalate	22	JEB	3600		µg/kg	OU6-SO-VPA95-106-0002	7/11	580 - 2500	3600		120000	ca*		NO	BSL
85-68-7	Butylbenzylphthalate	59		140	J	µg/kg	OU3-A1-SS05-0002	2/11	340 - 2500	140		10000000	nc		NO	BSL
86-74-8	Carbazole	38	J	190	J	µg/kg	OU3-A1-SB07-0608	4/9	400 - 2500	190		86000	ca		NO	BSL
218-01-9	Chrysene	52	J	2600		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2600		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	140	J	400	J	µg/kg	OU3-A1-SS05-0204	4/11	400 - 2500	400		210	ca		YES	ASL
132-64-9	Dibenzofuran	46		46		µg/kg	OU2-SO-503-0204-MAX	1/11	340 - 2500	46		310000	nc		NO	BSL
84-74-2	Di-n-Butylphthalate	48		210	JEB	µg/kg	OU6-SO-VPA95-106-0204	2/11	340 - 2400	210		6200000	nc		NO	BSL
117-84-0	Di-n-octylphthalate	570	J	570	J	µg/kg	OU6-SO-VPA95-106-0002	1/11	340 - 2500	570		2500000	nc		NO	BSL
206-44-0	Fluoranthene	82	J	3700		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	3700		2200000	nc		NO	BSL
86-73-7	Fluorene	63		260	J	µg/kg	OU3-A1-SB07-0608	4/11	340 - 2500	260		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	27	J	1700	J	µg/kg	OU3-A1-SB07-0608	9/9	0 - 0	1700		2100	ca		NO	BSL
91-20-3	Naphthalene	150	J	200	J	µg/kg	OU3-A1-SS05-0204	2/11	340 - 2500	200		19000	nc	170000	NO	BSL
85-01-8	Phenanthrene	41	J	2000	J	µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	2000		10000000	nc		NO	BSL
108-95-2	Phenol	86	JEB	9800	J	µg/kg	OU3-A1-SB07-0608	7/10	400 - 700	9800		10000000	nc		NO	BSL
129-00-0	Pyrene	78	J	3800		µg/kg	OU3-A1-SB07-0608	9/11	460 - 580	3800		2900000	nc		NO	BSL
72-54-8	4,4'-DDD	13		21		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.4 - 45	21	4.6	10000	ca		NO	BSL
72-55-9	4,4'-DDE	4.6		13		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.4 - 45	13	16.7	7000	ca		NO	BSL
50-29-3	4,4'-DDT	14	#	34		µg/kg	OU6-SO-VPA95-106-0204	2/13	3.5 - 45	34	29.1	7000	ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.4		2.4		µg/kg	OU2-SO-503-0002	1/13	1.8 - 23	2.4	4.88	6500	ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	243.5		22600		µg/kg	OU6-SO-VPA95-105-0406	12/14	35 - 72	22600		1000	ca		YES	ASL
12672-29-6	Aroclor-1248	44	J	44	J	µg/kg	OU3-A1-SS05-0204	1/14	34 - 1900	44	46.1	740	ca		NO	BSL
37324-23-5	Aroclor-1262	72	J	980	J	µg/kg	OU3-A1-SB07-0608	3/14	34 - 1900	980	36.8	1000	ca		NO	BSL
11100-14-4	Aroclor-1268	63		15000		µg/kg	OU6-SO-VPA95-105-0406	12/14	35 - 72	15000	46.1	1000	ca		YES	ASL
319-85-7	beta-BHC	3.1		3.1		µg/kg	OU2-SO-503-0204-MAX	1/13	1.8 - 23	3.1	2.39	1300	ca	6000	NO	BSL
60-57-1	Dieldrin	7.8		7.8		µg/kg	OU3-A1-SS05-0002	1/13	3.4 - 45	7.8	13.1	110	ca	1000	NO	BSL
1031-07-8	Endosulfan Sulfate	13	#	630	#	µg/kg	OU6-SO-VPA95-106-0002	7/13	3.5 - 7.2	630	4.69	370000	nc		NO	BSL
7421-93-4	Endrin Aldehyde	4.3	#	120	#	µg/kg	OU6-SO-VPA95-106-0002	8/13	3.5 - 7.2	120	4.56	18000	nc		NO	BSL
5103-74-2	gamma-Chlordane	2.9		3.9		µg/kg	OU3-A1-SB07-0608	2/13	1.8 - 23	3.9	2.67	6500	ca	72000	NO	BSL
72-43-5	Methoxychlor	34		34		µg/kg	OU2-SO-503-0204-MAX	1/13	18 - 230	34	22.3	310000	nc		NO	BSL
TE	Toxicity Equivalency	0.0022	J	0.0869		µg/kg	OU6-SO-VPA95-106-0002	6/6	0 - 0	0.0869		0.027	ca		YES	ASL
7429-90-5	Aluminum	5790		24700		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	24700	12900	nc			NO	EPA-I
7440-36-0	Antimony	1.8	J	3.4	J	mg/kg	OU6-SO-VPA95-106-0002	2/11	0.88 - 2.4	3.4	2.86	41	nc		NO	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-38-2	Arsenic	3.6	J	18.7		mg/kg	OU2-SO-503-0204-MAX	7/13	1.6 - 4.6	18.7	5.67	1.6 ca*	770	YES	ASL	
7440-39-3	Barium	43.5		3820		mg/kg	OU3-A1-SB07-0608	13/13	0 - 0	3820	57.5	6700 nc	710000	NO	BSL	
7440-41-7	Beryllium	0.57		0.8		mg/kg	OU2-SO-503-0810	6/13	0.22 - 0.55	0.8	0.719	1900 nc	1400	NO	BSL	
7440-43-9	Cadmium	0.47		1.3		mg/kg	OU6-SO-VPA95-106-0002	7/13	0.077 - 0.46	1.3	0.397	45 nc	1800	NO	BSL	
7440-70-2	Calcium	2420		30200		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	30200	1600			NO	NUT	
7440-47-3	Chromium	11.2		68.5		mg/kg	OU3-A1-SB07-0608	13/13	0 - 0	68.5	17	64 ca	280	YES	ASL	
7440-48-4	Cobalt	3		14.4	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	14.4	6.35	ca**		NO	EPA-I	
7440-50-8	Copper	22.3		3720		mg/kg	OU6-SO-VPA95-107-0002	18/24	300 - 300	3720	28.8	nc		NO	EPA-I	
7439-89-6	Iron	9670		29900		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	29900	16000	nc		NO	EPA-I	
7439-92-1	Lead	22	J	7360		mg/kg	OU6-SO-VPA95-107-0204	19/25	100 - 100	7360	80.8	750 nc		YES	ASL	
7439-95-4	Magnesium	2500		24300		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	24300	3250			NO	NUT	
7439-96-5	Manganese	80		308		mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	308	306	1900 nc		NO	BSL	
7439-97-6	Mercury	0.17	J	0.7		mg/kg	OU6-SO-VPA95-106-0002	5/13	0.06 - 0.21	0.7	0.111	31 nc	10	NO	BSL	
7440-02-0	Nickel	7		80.9		mg/kg	OU6-SO-VPA95-106-0002	13/13	0 - 0	80.9	12.5	2000 nc	14000	NO	BSL	
7440-09-7	Potassium	1020		3520	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	3520	961			NO	NUT	
7782-49-2	Selenium	2.4	J	2.4	J	mg/kg	OU3-A1-SS05-0204	1/13	0.54 - 3.5	2.4	0.499	510 nc		NO	BSL	
7440-22-4	Silver	0.71	J	1	, J	mg/kg	OU3-A1-SB07-0608, OU6-SO-VPA95-106-0406	4/13	0.21 - 0.78	1	0.508	510 nc		NO	BSL	
7440-23-5	Sodium	539		2320	J	mg/kg	OU3-A1-SS05-0204	6/13	39.8 - 266	2320	76.4			NO	NUT	
7440-62-2	Vanadium	15.4	J	53	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	53	34.2	720 nc		NO	BSL	
7440-66-6	Zinc	29.5		223	J	mg/kg	OU3-A1-SS05-0204	13/13	0 - 0	223	112	10000 nc		NO	BSL	
ASBESTOS	Asbestos	0.9	, *	40		%	OU6-SO-VPA95-107-0002	21/25	0.1 - 0.1	40	0.99	1		YES	ASL	

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
VACANT DOT LOT ABUTTING I-95
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
108-88-3	Toluene	7	J	7	J	µg/kg	OU6-SO-FB191-201-1214	1/6	7 - 9	7		52000 sat	650000	NO	BSL
79-01-6	Trichloroethene	1	J	1	J	µg/kg	OU6-SO-FB191-201-0608	1/6	7 - 12	1		110 ca	5000	NO	BSL
92-52-4	1,1'-Biphenyl	140	J	140	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	140		35000 sat		NO	BSL
91-57-6	2-Methylnaphthalene	37	J	610		µg/kg	OU6-SO-FB191-201-1214	3/10	330 - 2600	610		19000 nc		NO	BSL
83-32-9	Acenaphthene	39	J	2000	J	µg/kg	OU3-A1-SD04-0204	6/10	360 - 370	2000		2900000 nc		NO	BSL
208-96-8	Acenaphthylene	72	J	740		µg/kg	OU3-A1-SB02-0002	10/10	0 - 0	740		19000 nc		NO	BSL
120-12-7	Anthracene	52	J	940		µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	940		10000000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	380		3200		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	3200		2100 ca		YES	ASL
50-32-8	Benzo(a)pyrene	440		2700		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2700		210 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	530		6000	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	6000		2100 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	160	J	870	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	870		2900000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	540		6000	J	µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	6000		21000 ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	41	JEB	4200		µg/kg	OU3-A1-SD04-0204	3/10	360 - 410	4200		120000 ca*		NO	BSL
86-74-8	Carbazole	36	J	350		µg/kg	OU6-SO-FB191-201-0002-MAX	10/10	0 - 0	350		86000 ca		NO	BSL
218-01-9	Chrysene	510		3900		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	3900		210000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	96	J	280		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	330 - 2600	280		210 ca		YES	ASL
132-64-9	Dibenzofuran	42	J	460		µg/kg	OU6-SO-FB191-201-1214	7/10	330 - 370	460		310000 nc		NO	BSL
206-44-0	Fluoranthene	970		14000		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	14000		2200000 nc		NO	BSL
86-73-7	Fluorene	29	J	1100		µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	1100		2600000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	1600		µg/kg	OU3-A1-SB02-0002	10/10	0 - 0	1600		2100 ca		NO	BSL
91-20-3	Naphthalene	46	J	290	J	µg/kg	OU3-A1-SD04-0204, OU6-SO-FB191-201-1214	3/10	330 - 390	290		19000 nc	170000	NO	BSL
85-01-8	Phenanthrene	400		4900	*J	µg/kg	OU6-SO-FB191-201-1214	10/10	0 - 0	4900		10000000 nc		NO	BSL
108-95-2	Phenol	740	J	740	J	µg/kg	OU3-A1-SD04-0204	1/10	330 - 710	740		10000000 nc		NO	BSL
129-00-0	Pyrene	830		10000		µg/kg	OU3-A1-SD04-0204	10/10	0 - 0	10000		2900000 nc		NO	BSL
72-54-8	4,4'-DDD	5.1		17	J	µg/kg	OU6-SO-FB191-201-0810	6/10	3.6 - 3.7	17	4.6	10000 ca		NO	BSL
72-55-9	4,4'-DDE	1.8	J	100		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	2.6 - 3.8	100	16.7	7000 ca		NO	BSL
50-29-3	4,4'-DDT	12	#	510		µg/kg	OU6-SO-FB191-201-0002-MAX	6/10	2.6 - 3.6	510	29.1	7000 ca*		NO	BSL
319-84-6	alpha-BHC	0.083	J	0.26	J	µg/kg	OU3-A1-SD04-0002	2/10	1.9 - 2	0.26	2.41	360 ca	700	NO	BSL
5103-71-9	alpha-Chlordane	0.78	J	7.8		µg/kg	OU6-SO-FB191-201-0002-MAX	3/10	1.3 - 2	7.8	4.88	6500 ca	72000	NO	BSL
ACROCLORTOTC	Aroclor, Total (Conservative)	193.5		7580		µg/kg	OU6-SO-FBROW-105-0406	11/11	0 - 0	7580		1000 ca		YES	ASL
37324-23-5	Aroclor-1262	290	J	4600	*J	µg/kg	OU6-SO-FB191-201-0406	8/11	37 - 970	4600	36.8	1000 ca		YES	ASL
11100-14-4	Aroclor-1268	30	J	3700		µg/kg	OU6-SO-FBROW-105-0406	11/11	0 - 0	3700	46.1	1000 ca		YES	ASL

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value	Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection
319-86-8	delta-BHC	1.1	J	1.6		µg/kg	OU3-A1-SD04-0204	2/10	1.9 - 2	1.6	2.32	1300 ca*		NO	BSL
33213-65-9	Endosulfan II	8.3		8.3		µg/kg	OU3-A1-SB02-0002	1/8	3.6 - 3.9	8.3	4.72	370000 nc		NO	BSL
1031-07-8	Endosulfan Sulfate	1.6	J	8.9		µg/kg	OU3-A1-SB02-0002	2/10	2.6 - 3.9	8.9	4.69	370000 nc		NO	BSL
72-20-8	Endrin	0.46	J	0.46	J	µg/kg	OU3-A1-SD04-0002	1/10	2.6 - 3.9	0.46	4.77	18000 nc		NO	BSL
7421-93-4	Endrin Aldehyde	39		39		µg/kg	OU3-A1-SD04-0204	1/10	3.3 - 3.9	39	4.56	18000 nc		NO	BSL
53494-70-5	Endrin Ketone	4.2	#	11	J#	µg/kg	OU6-SO-FB191-201-0608	2/10	2.6 - 3.9	11	5.31	18000 nc		NO	BSL
5103-74-2	gamma-Chlordane	1.7	J	6.3		µg/kg	OU6-SO-FB191-201-0002-MAX	5/10	1.3 - 2	6.3	2.67	1600 ca	72000	NO	BSL
76-44-8	Heptachlor	0.86	J	1.1	J	µg/kg	OU3-A1-SD04-0204	2/10	1.9 - 2	1.1	2.19	380 ca	4000	NO	BSL
1024-57-3	Heptachlor Epoxide	0.22	J	0.22	J	µg/kg	OU3-A1-SD04-0002	1/10	1.3 - 2	0.22	2.33	190 ca*	5000	NO	BSL
TE	Toxicity Equivalency	0.026		0.026		µg/kg	OU6-SO-FB191-201-0002-MAX	1/1	0 - 0	0.026		0.027 ca		NO	BSL
7429-90-5	Aluminum	4870		32100	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	32100	12900	nc		NO	EPA-I
7440-36-0	Antimony	8.8	J	8.8	J	mg/kg	OU3-A1-SD04-0204	1/8	0.91 - 3.6	8.8	2.86	41 nc		NO	BSL
7440-38-2	Arsenic	2.5		80.3		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	80.3	5.67	1.6 ca*	770	YES	ASL
7440-39-3	Barium	32.9		1390		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	1390	57.5	6700 nc	710000	NO	BSL
7440-41-7	Beryllium	0.31		1.6		mg/kg	OU3-A1-SD04-0204	5/10	0.2 - 0.3	1.6	0.719	1900 nc	1400	NO	BSL
7440-43-9	Cadmium	0.083	J	7.1	J	mg/kg	OU3-A1-SD04-0204	2/10	0.064 - 0.3	7.1	0.397	45 nc	1800	NO	BSL
7440-70-2	Calcium	704		5980		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	5980	1600			NO	NUT
7440-47-3	Chromium	9.4	J	287		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	287	17	64 ca	280	YES	ASL
7440-48-4	Cobalt	3.2		19.5	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	19.5	6.35	ca**		NO	EPA-I
7440-50-8	Copper	24.6		1450	J	mg/kg	OU3-A1-SD04-0204	16/24	150 - 300	1450	28.8	nc		NO	EPA-I
7439-89-6	Iron	8270		64500		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	64500	16000	nc		NO	EPA-I
7439-92-1	Lead	50	J	1810	J	mg/kg	OU3-A1-SD04-0204	19/24	10.7 - 100	1810	80.8	750 nc		YES	ASL
7439-95-4	Magnesium	2370		13200		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	13200	3250			NO	NUT
7439-96-5	Manganese	109	J	492		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	492	306	1900 nc		NO	BSL
7439-97-6	Mercury	0.088	J	0.088	J	mg/kg	OU3-A1-SB02-0002	1/10	0.038 - 0.26	0.088	0.111	31 nc	10	NO	BSL
7440-02-0	Nickel	9		117	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	117	12.5	2000 nc	14000	NO	BSL
7440-09-7	Potassium	764		2390	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2390	961			NO	NUT
7782-49-2	Selenium	0.6	J	0.64		mg/kg	OU6-SO-FB191-201-0002-MAX	2/10	0.51 - 2	0.64	0.499	510 nc		NO	BSL
7440-23-5	Sodium	200		2170	J	mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	2170	76.4			NO	NUT
7440-28-0	Thallium	3.5		3.5		mg/kg	OU3-A1-SD04-0204	1/10	0.72 - 1.8	3.5	0.368	6.7 nc		NO	BSL
7440-62-2	Vanadium	17.5		143		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	143	34.2	720 nc		NO	BSL
7440-66-6	Zinc	34.5		588		mg/kg	OU3-A1-SD04-0204	10/10	0 - 0	588	112	10000 nc		NO	BSL
ASBESTOS	Asbestos	0.9	, *	15.9	*	%	OU6-SO-FB191-201-0204	19/24	0.1 - 0.1	15.9	0.99	1		YES	ASL

TABLE 2.13A
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT RIGHT-OF-WAY

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value	Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection
108-88-3	Toluene	7	J	7	J	µg/kg	OU6-SO-FB191-201-1214	1/6	7 - 9	7		66000 sat	650000	<u>NO</u>	<u>BSL</u>
79-01-6	Trichloroethene	1	J	1	J	µg/kg	OU6-SO-FB191-201-0608	1/6	7 - 12	1		53 ca	5000	<u>NO</u>	<u>BSL</u>
92-52-4	1,1'-Biphenyl	140	J	140	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	140		35000 sat		<u>NO</u>	<u>BSL</u>
91-57-6	2-Methylnaphthalene	37	J	610		µg/kg	OU6-SO-FB191-201-1214	3/6	370 - 370	610		5600 nc		<u>NO</u>	<u>BSL</u>
83-32-9	Acenaphthene	44	J	310	J	µg/kg	OU6-SO-FB191-201-1214	3/6	360 - 370	310		370000 nc		<u>NO</u>	<u>BSL</u>
208-96-8	Acenaphthylene	170	J	680		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	680		5600 nc		<u>NO</u>	<u>BSL</u>
120-12-7	Anthracene	140	J	940		µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	940		2200000 nc		<u>NO</u>	<u>BSL</u>
56-55-3	Benz(a)anthracene	610		2200		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2200		620 ca		<u>YES</u>	<u>ASL</u>
50-32-8	Benz(a)pyrene	620		1800		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	1800		62 ca		<u>YES</u>	<u>ASL</u>
205-99-2	Benz(b)fluoranthene	530		1400		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	1400		620 ca		<u>YES</u>	<u>ASL</u>
191-24-2	Benz(g,h,i)perylene	260	J	600		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	600		230000 nc		<u>NO</u>	<u>BSL</u>
207-08-9	Benz(k)fluoranthene	540		2000		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2000		6200 ca		<u>NO</u>	<u>BSL</u>
86-74-8	Carbazole	53	J	350		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	350		24000 ca		<u>NO</u>	<u>BSL</u>
218-01-9	Chrysene	690		2000		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	2000		62000 ca		<u>NO</u>	<u>BSL</u>
53-70-3	Dibenzo(a,h)anthracene	96	J	280		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	280		62 ca		<u>YES</u>	<u>ASL</u>
132-64-9	Dibenzofuran	44	J	460		µg/kg	OU6-SO-FB191-201-1214	5/6	370 - 370	460		29000 nc		<u>NO</u>	<u>BSL</u>
206-44-0	Fluoranthene	1100		4400		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	4400		230000 nc		<u>NO</u>	<u>BSL</u>
86-73-7	Fluorene	57	J	1100		µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	1100		270000 nc		<u>NO</u>	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	280	J	740		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	740		620 ca		<u>YES</u>	<u>ASL</u>
91-20-3	Naphthalene	290	J	290	J	µg/kg	OU6-SO-FB191-201-1214	1/6	360 - 390	290		5600 nc	170000	<u>NO</u>	<u>BSL</u>
85-01-8	Phenanthrene	470	J	4900	*J	µg/kg	OU6-SO-FB191-201-1214	6/6	0 - 0	4900		2200000 nc		<u>NO</u>	<u>BSL</u>
129-00-0	Pyrene	1100	, J	3700		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	3700		230000 nc		<u>NO</u>	<u>BSL</u>
72-54-8	4,4'-DDD	9	J	17	J	µg/kg	OU6-SO-FB191-201-0810	4/6	3.6 - 3.7	17	4.6	2400 ca		<u>NO</u>	<u>BSL</u>
72-55-9	4,4'-DDE	9.1	J	100		µg/kg	OU6-SO-FB191-201-0002-MAX	5/6	3.8 - 3.8	100	16.7	1700 ca		<u>NO</u>	<u>BSL</u>
50-29-3	4,4'-DDT	12	#	510		µg/kg	OU6-SO-FB191-201-0002-MAX	6/6	0 - 0	510	29.1	1700 ca*		<u>NO</u>	<u>BSL</u>
5103-71-9	alpha-Chlordane	2.6	J	7.8		µg/kg	OU6-SO-FB191-201-0002-MAX	2/6	1.9 - 2	7.8	4.88	1600 ca	72000	<u>NO</u>	<u>BSL</u>
AROCLORTOTC	Aroclor, Total (Conservative)	1041.5		5848.5		µg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	5848.5		220 ca		<u>YES</u>	<u>ASL</u>
37324-23-5	Aroclor-1262	2100	*J	4600	*J	µg/kg	OU6-SO-FB191-201-0406	5/6	38 - 38	4600	36.8	220 ca		<u>YES</u>	<u>ASL</u>
11100-14-4	Aroclor-1268	730	J	1100	, J	µg/kg	OU6-SO-FB191-201-0002-MAX, OU6-SO-FB191-201-0406	6/6	0 - 0	1100	46.1	220 ca		<u>YES</u>	<u>ASL</u>
53494-70-5	Endrin Ketone	4.2	#	11	J#	µg/kg	OU6-SO-FB191-201-0608	2/6	3.6 - 3.9	11	5.31	1800 nc		<u>NO</u>	<u>BSL</u>
5103-74-2	gamma-Chlordane	2	J	6.3		µg/kg	OU6-SO-FB191-201-0002-MAX	3/6	1.9 - 2	6.3	2.67	1600 ca	72000	<u>NO</u>	<u>BSL</u>

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
TE	Toxicity Equivalency	0.026		0.026		µg/kg	OU6-SO-FB191-201-0002-MAX	1/1	0 - 0	0.026		0.0039 ca		YES	ASL
7429-90-5	Aluminum	4870		7390		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	7390	12900	nc		NO	EPA-I
7440-38-2	Arsenic	2.5		6.3		mg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	6.3	5.67	0.39 ca*	770	YES	ASL
7440-39-3	Barium	240	J	912	J	mg/kg	OU6-SO-FB191-201-0810	6/6	0 - 0	912	57.5	540 nc	710000	YES	ASL
7440-41-7	Beryllium	0.31		0.49		mg/kg	OU6-SO-FB191-201-0608	2/6	0.2 - 0.27	0.49	0.719	15 nc	1400	NO	BSL
7440-70-2	Calcium	704		1930		mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	1930	1600			NO	NUT
7440-47-3	Chromium	9.4	J	14.5	J	mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	14.5	17	30 ca	280	NO	BSL
7440-48-4	Cobalt	3.2		5.6		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	5.6	6.35	ca**		NO	EPA-I
7440-50-8	Copper	185		816		mg/kg	OU6-SO-FB189-204-0204	7/9	150 - 150	816	28.8	nc		NO	EPA-I
7439-89-6	Iron	8270		13900		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	13900	16000	nc		NO	EPA-I
7439-92-1	Lead	134		982	J	mg/kg	OU6-SO-FB191-201-0810	9/9	0 - 0	982	80.8	400 nc		YES	ASL
7439-95-4	Magnesium	2370		3270		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	3270	3250			NO	NUT
7439-96-5	Manganese	109	J	218	J	mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	218	306	180 nc		YES	ASL
7440-02-0	Nickel	11.6		15		mg/kg	OU6-SO-FB191-201-0406	6/6	0 - 0	15	12.5	160 nc	14000	NO	BSL
7440-09-7	Potassium	764		1290		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	1290	961			NO	NUT
7782-49-2	Selenium	0.6	J	0.64		mg/kg	OU6-SO-FB191-201-0002-MAX	2/6	0.52 - 0.65	0.64	0.499	39 nc		NO	BSL
7440-23-5	Sodium	263		466		mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	466	76.4			NO	NUT
7440-62-2	Vanadium	17.5		25.2		mg/kg	OU6-SO-FB191-201-0204	6/6	0 - 0	25.2	34.2	55 nc		NO	BSL
7440-66-6	Zinc	63.7		254	J	mg/kg	OU6-SO-FB191-201-0608	6/6	0 - 0	254	112	2300 nc		NO	BSL
ASBESTOS	Asbestos	0.9	*	15.9	*	%	OU6-SO-FB191-201-0204	9/9	0 - 0	15.9	0.99	1		YES	ASL

TABLE 2.13B
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CT RIGHT-OF-WAY - RESIDENTIAL PORTION
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value	Soil (4) Screening Level for Inhalation	COPC Flag	Rationale for (5) Contaminant Deletion or Selection
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	1	J	150	J	µg/kg	OU6-SO-ES340-105-0810	7/8	11 - 11	150		2700000 nc			NO	BSL
67-64-1	Acetone	140	J	1000	J	µg/kg	OU6-SO-ES340-105-0810	4/8	9 - 22	1000		600000 nc			NO	BSL
71-43-2	Benzene	1	J	35	J	µg/kg	OU6-SO-ES304-104-0810	4/7	7 - 8	35		1300 ca*	800		NO	BSL
75-15-0	Carbon Disulfide	0.8	J	31		µg/kg	OU6-SO-ES340-105-0204	7/7	0 - 0	31		72000 nc	720000		NO	BSL
108-90-7	Chlorobenzene	2	J	2	J	µg/kg	OU6-SO-ES340-105-0406	1/6	7 - 21	2		53000 nc	130000		NO	BSL
74-87-3	Chloromethane	12	J	12	J	µg/kg	OU6-SO-ES340-105-0406	1/6	7 - 21	12		2600 ca			NO	BSL
110-82-7	Cyclohexane	21		250		µg/kg	OU6-SO-ES340-105-0406	2/6	7 - 11	250		14000 sat			NO	BSL
100-41-4	Ethylbenzene	4	J	15	J	µg/kg	OU6-SO-ES340-105-0204	2/6	7 - 11	15		20000 ca	400000		NO	BSL
98-82-8	Isopropylbenzene	10	J	14	J	µg/kg	OU6-SO-ES340-105-0406	2/6	7 - 11	14		200000 nc			NO	BSL
79-20-9	Methyl Acetate	17	J	17	J	µg/kg	OU6-SO-ES340-105-0204	1/6	7 - 15	17		9200000 nc			NO	BSL
1634-04-4	Methyl tert-Butyl Ether	1	J	1	J	µg/kg	OU6-SO-ES304-104-0406	1/6	7 - 21	1		160000 ca*			NO	BSL
108-87-2	Methylcyclohexane	0.9	J	910	*	µg/kg	OU6-SO-ES340-105-0406	3/6	7 - 11	910		870000 nc			NO	BSL
108-88-3	Toluene	2	J	51	J	µg/kg	OU6-SO-ES304-104-0810	3/7	7 - 11	51		52000 sat	650000		NO	BSL
1330-20-7	Total Xylenes	0.9	J	170	J	µg/kg	OU6-SO-ES340-105-0204	4/7	7 - 11	170		42000 nc			NO	BSL
105-67-9	2,4-Dimethylphenol	390	J	390	J	µg/kg	OU6-SO-ES304-104-0406	1/6	360 - 550	390		1200000 nc			NO	BSL
91-57-6	2-Methylnaphthalene	85	J	100	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 550	100		19000 nc			NO	NTX
95-48-7	2-Methylphenol	150	J	260	J	µg/kg	OU6-SO-ES340-105-0406	2/6	360 - 470	260		3100000 nc			NO	BSL
106-44-5	4-Methylphenol	120	J	290	J	µg/kg	OU6-SO-ES340-105-0406	3/6	360 - 470	290		310000 nc			NO	BSL
83-32-9	Acenaphthene	56	J	56	J	µg/kg	OU6-SO-ES340-105-0204	1/3	380 - 550	56		2900000 nc			NO	BSL
208-96-8	Acenaphthylene	74	J	74	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	74		19000 nc			NO	NTX
98-86-2	Acetophenone	190	J	300	J	µg/kg	OU6-SO-ES340-105-0204	2/3	380 - 380	300		160 nc			YES	ASL
120-12-7	Anthracene	49	J	200	J	µg/kg	OU6-SO-ES340-105-0204	4/6	360 - 470	200		1000000 nc			NO	BSL
100-52-7	Benzaldehyde	590	JEB	590	JEB	µg/kg	OU6-SO-ES304-104-0810	1/7	360 - 550	590		6200000 nc			NO	BSL

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
56-55-3	Benzo(a)anthracene	150	J	510		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	510			2100 ca		NO	<u>BSL</u>
50-32-8	Benzo(a)pyrene	140	J	300	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	300			210 ca		YES	<u>ASL</u>
205-99-2	Benzo(b)fluoranthene	190	J	340	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	340			2100 ca		NO	<u>BSL</u>
191-24-2	Benzo(g,h,i)perylene	69	J	80	J	µg/kg	OU6-SO-ES340-105-0204	2/6	360 - 500	80			2900000 nc		NO	<u>NTX</u>
207-08-9	Benzo(k)fluoranthene	160	J	270	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	270			21000 ca		NO	<u>BSL</u>
117-81-7	bis(2-Ethylhexyl)phthalate	46	J	15000		µg/kg	OU6-SO-ES340-105-0204	6/7	500 - 500	15000			120000 ca*		NO	<u>BSL</u>
86-74-8	Carbazole	72	J	80	J	µg/kg	OU6-SO-ES340-105-0406	2/6	360 - 500	80			86000 ca		NO	<u>BSL</u>
218-01-9	Chrysene	200	J	680		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	680			210000 ca		NO	<u>BSL</u>
53-70-3	Dibenzo(a,h)anthracene	97	J	120	J	µg/kg	OU6-SO-ES340-105-0204	2/6	360 - 500	120			210 ca		NO	<u>BSL</u>
132-64-9	Dibenzofuran	45	J	61	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 550	61			310000 nc		NO	<u>BSL</u>
84-66-2	Diethylphthalate	63	J	63	J	µg/kg	OU6-SO-ES304-104-0002	1/6	380 - 550	63			10000000 nc		NO	<u>BSL</u>
84-74-2	Di-n-Butylphthalate	89	J	89	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	89			6200000 nc		NO	<u>BSL</u>
206-44-0	Fluoranthene	280	J	1200		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	1200			2200000 nc		NO	<u>BSL</u>
86-73-7	Fluorene	65	J	100	J	µg/kg	OU6-SO-ES340-105-0204	3/6	360 - 470	100			2600000 nc		NO	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	94	J	300	J	µg/kg	OU6-SO-ES340-105-0204	5/6	500 - 500	300			2100 ca		NO	<u>BSL</u>
91-20-3	Naphthalene	75	J	150	J	µg/kg	OU6-SO-ES304-104-0406	3/6	360 - 470	150			19000 nc	170000	NO	<u>BSL</u>
86-30-6	N-Nitroso-diphenylamine	120	J	120	J	µg/kg	OU6-SO-ES340-105-0204	1/6	360 - 550	120			350000 ca		NO	<u>BSL</u>
85-01-8	Phenanthrene	160	J	750		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	750			10000000 nc		NO	<u>NTX</u>
108-95-2	Phenol	2800		3600	J	µg/kg	OU6-SO-ES304-104-0406	2/6	360 - 470	3600			10000000 nc		NO	<u>BSL</u>
129-00-0	Pyrene	370	, J	1100		µg/kg	OU6-SO-ES340-105-0204	6/6	0 - 0	1100			2900000 nc		NO	<u>BSL</u>
72-54-8	4,4'-DDD	5.7		5.7		µg/kg	OU6-SO-ES304-104-0002	1/6	3.5 - 270	5.7			4.6	10000 ca	NO	<u>BSL</u>
72-55-9	4,4'-DDE	7.7		320		µg/kg	OU6-SO-ES340-105-0204	2/6	3.5 - 270	320			16.7	7000 ca	NO	<u>BSL</u>
50-29-3	4,4'-DDT	26		3500		µg/kg	OU6-SO-ES340-105-0406	2/6	3.5 - 240	3500			29.1	7000 ca*	NO	<u>BSL</u>

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
												Soil Screening Level for Inhalation				
5103-71-9	alpha-Chlordane	2.1		10		µg/kg	OU6-SO-ES304-104-0002	2/6	2.7 - 140	10	4.88	6500 ca	72000	NO	NTX	
AROCLORTOTC	Aroclor, Total (Conservative)	335.5		510850		µg/kg	OU6-SO-ES340-105-0406	8/8	0 - 0	510850		1000 ca		YES	ASL	
37324-23-5	Aroclor-1262	100		280000	*	µg/kg	OU6-SO-ES340-105-0406	5/7	52 - 2400	280000	36.8	1000 ca		YES	ASL	
11100-14-4	Aroclor-1268	91		220000	*	µg/kg	OU6-SO-ES340-105-0406	8/8	0 - 0	220000	46.1	1000 ca		YES	ASL	
1031-07-8	Endosulfan Sulfate	7.9	#	21000	*#	µg/kg	OU6-SO-ES340-105-0406	7/8	13000 - 13000	21000	4.69	370000 nc		NO	NTX	
72-20-8	Endrin	320		730		µg/kg	OU6-SO-ES340-105-0204	2/6	3.5 - 270	730	4.77	18000 nc		NO	BSL	
7421-93-4	Endrin Aldehyde	6.3	#	2000	#	µg/kg	OU6-SO-ES340-105-0406	6/7	3.6 - 3.6	2000	4.56	18000 nc		NO	NTX	
53494-70-5	Endrin Ketone	5.4		5.4		µg/kg	OU6-SO-ES304-104-0204	1/6	3.5 - 270	5.4	5.31	18000 nc		NO	NTX	
5103-74-2	gamma-Chlordane	6.1		6.1		µg/kg	OU6-SO-ES304-104-0002	1/6	1.8 - 140	6.1	2.67	6500 ca	72000	NO	NTX	
72-43-5	Methoxychlor	1200		1200		µg/kg	OU6-SO-ES340-105-0204	1/6	18 - 1400	1200	22.3	310000 nc		NO	BSL	
TE	Toxicity Equivalency	0.474		0.474		µg/kg	OU6-SO-ES304-104-0406	1/1	0 - 0	0.474		0.027 ca		YES	ASL	
7429-90-5	Aluminum	1000	J	8040		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	8040	12900			NO	EPA-I	
7440-36-0	Antimony	3.9	J	34.5	J	mg/kg	OU6-SO-ES304-104-0608	3/8	0.32 - 3.1	34.5	2.86	41 nc		NO	BSL	
7440-38-2	Arsenic	4.6		21.9		mg/kg	OU6-SO-ES304-104-0608	7/7	0 - 0	21.9	5.67	1.6 ca*	770	YES	ASL	
7440-39-3	Barium	41.1		8110		mg/kg	OU6-SO-ES304-104-0406	9/9	0 - 0	8110	57.5	6700 nc	710000	YES	ASL	
7440-41-7	Beryllium	0.34		0.34		mg/kg	OU6-SO-ES340-105-0002	1/8	0.063 - 0.35	0.34	0.719	1900 nc	1400	NO	BSL	
7440-43-9	Cadmium	5.6		9.8		mg/kg	OU6-SO-ES304-104-0406	4/7	0.17 - 0.23	9.8	0.397	45 nc	1800	NO	BSL	
7440-70-2	Calcium	874	J	7390	J	mg/kg	OU6-SO-ES340-105-0810	9/9	0 - 0	7390	1600			NO	NUT	
7440-47-3	Chromium	3.6	J	76.5		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	76.5	17	64 ca	280	YES	ASL	
7440-48-4	Cobalt	1	J	16.4	J	mg/kg	OU6-SO-ES340-105-0406	8/9	0.41 - 0.41	16.4	6.35			NO	EPA-I	
7440-50-8	Copper	57.8		25100		mg/kg	OU6-SO-ES304-104-0608	14/15	150 - 150	25100	28.8			NO	EPA-I	
7439-89-6	Iron	1720	J	38100		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	38100	16000			NO	EPA-I	
7439-92-1	Lead	63.1	J	43400		mg/kg	OU6-SO-ES304-104-0608	15/15	0 - 0	43400	80.8	750 nc		YES	ASL	

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7439-95-4	Magnesium	1740		32900	J	mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	32900	3250				NO	NUT
7439-96-5	Manganese	42.3	J	354		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	354	306	1900 nc			NO	BSL
7439-97-6	Mercury	0.069	J	0.45		mg/kg	OU6-SO-ES304-104-0406	5/7	0.047 - 0.058	0.45	0.111	31 nc	10		NO	BSL
7440-02-0	Nickel	3.3	J	209		mg/kg	OU6-SO-ES340-105-0406	9/9	0 - 0	209	12.5	2000 nc	14000		NO	BSL
7440-09-7	Potassium	206		1230		mg/kg	OU6-SO-ES340-105-0002	9/9	0 - 0	1230	961				NO	NUT
7782-49-2	Selenium	0.55	J	6.1	J	mg/kg	OU6-SO-ES340-105-0406	2/7	0.42 - 2.1	6.1	0.499	510 nc			NO	BSL
7440-22-4	Silver	0.87	J	4.3		mg/kg	OU6-SO-ES304-104-0608	4/7	0.1 - 0.19	4.3	0.508	510 nc			NO	BSL
7440-23-5	Sodium	99.3	J	5690		mg/kg	OU6-SO-ES304-104-0406	7/9	125 - 169	5690	76.4				NO	NUT
7440-62-2	Vanadium	1.9	J	24.1		mg/kg	OU6-SO-ES304-104-0002	9/9	0 - 0	24.1	34.2	720 nc			NO	BSL
7440-66-6	Zinc	59.7		18400		mg/kg	OU6-SO-ES304-104-0608	9/9	0 - 0	18400	112	10000 nc		YES	ASL	
ASBESTOS	Asbestos	0.9	, *	50	%	OU6-SO-ES340-105-0406	15/16	0.1 - 0.1	50			1		YES	ASL	

TABLE 2.14
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
304 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

Background values are the average of off-site background concentrations.
 (3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason:

Infrequent Detection but Associated Historically (HIST)

* = From dilution analysis or estimated maximum possible concentration

Frequent Detection (FD)

= Possible false positive due to interference

Toxicity Information Available (TX)

ca = Carcinogenic

Above Screening Levels (ASL)

ca* = where nc < 100X ca

Deletion Reason:

Infrequent Detection (IFD)

ca** = where nc < 10X ca

Background Levels (BKG)

nc = Non-Carcinogenic

No Toxicity Information (NTX)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Essential Nutrient (NUT)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.15
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
340 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	(2)	Background Value	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
AROCLORTOTC 37324-23-5	Aroclor, Total (Conservative) Aroclor-1262	1167 590		1167 590		µg/kg µg/kg	OU6-SO-ES340-201-0002 OU6-SO-ES340-201-0002	1/1 1/1	0 - 0 0 - 0	1167 590		1000 ca 1000 ca		<u>YES</u> <u>NO</u>	<u>ASL</u> <u>BSL</u>	
11100-14-4	Aroclor-1268	500		500		µg/kg	OU6-SO-ES340-201-0002	1/1	0 - 0	500		46.1	1000 ca	<u>NO</u>	<u>BSL</u>	
7440-50-8	Copper	143	J	87900		mg/kg	OU6-SO-ES340-104-0608	21/23	150 - 150	87900		28.8		<u>NO</u>	<u>EPA-I</u>	
7439-92-1	Lead	56	J	27000		mg/kg	OU6-SO-ES340-202-0204	23/23	0 - 0	27000		80.8	750 nc	<u>YES</u>	<u>ASL</u>	
ASBESTOS	Asbestos	0.9	,	70		%	OU6-SO-ES340-103-0406, OU6-SO-ES340-104-0406	21/23	0.1 - 0.1	70			1	<u>YES</u>	<u>ASL</u>	

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.16
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
380 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 380 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
AROCLORTOTC 11100-14-4	Aroclor, Total (Conservative) Aroclor-1268	470 110		470 110		µg/kg µg/kg	OU6-SO-ES380-106-0001.5-MAX OU6-SO-ES380-106-0001.5-MAX	1/1 1/1	0 - 0 0 - 0	470 110	46.1	1000 ca 1000 ca		NO NO	BSL BSL	
7440-50-8	Copper	2500		2500		mg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	2500	28.8			NO	EPA-I	
7439-92-1	Lead	1500		1500		mg/kg	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	1500	80.8	750 nc 1		YES	ASL	
ASBESTOS	Asbestos	2		2		%	OU6-SO-ES380-106-0001.5-MAX	1/1	0 - 0	2				YES	ASL	

Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
78-93-3	2-Butanone	6	J	110	J	µg/kg	OU6-SO-DI-210-0608	3/5	5 - 9	110			2700000 nc	NO	BSL	
67-64-1	Acetone	8	J	710	*J	µg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	710			600000 nc	NO	BSL	
71-43-2	Benzene	2	J	4	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	4			1300 ca*	800	NO	BSL
110-82-7	Cyclohexane	44	J	44	J	µg/kg	OU6-SO-DI-210-0608	1/5	4 - 9	44			14000 sat	NO	BSL	
79-20-9	Methyl Acetate	42	J	91	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	91			9200000 nc	NO	BSL	
1634-04-4	Methyl tert-Butyl Ether	0.6	J	130	J	µg/kg	OU6-SO-DI-210-0608	3/5	6 - 9	130			160000 ca*	NO	BSL	
108-87-2	Methylcyclohexane	1	J	35	J	µg/kg	OU6-SO-DI-210-0608	2/5	4 - 9	35			870000 nc	NO	BSL	
108-88-3	Toluene	1	J	5	J	µg/kg	OU6-SO-DI-210-0002, OU6-SO-DI-210-0608	3/5	4 - 5	5			52000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	5	J	µg/kg	OU6-SO-DI-210-0002	1/5	4 - 400	5			42000 nc	NO	BSL	
105-67-9	2,4-Dimethylphenol	83	J	240	J	µg/kg	OU6-SO-DI-210-0204	2/4	370 - 1800	240			1200000 nc	NO	BSL	
91-57-6	2-Methylnaphthalene	100	J	100	J	µg/kg	OU6-SO-DI-210-0608	1/4	370 - 1800	100			19000 nc	NO	NTX	
95-48-7	2-Methylphenol	86	J	670		µg/kg	OU6-SO-DI-210-0204	4/5	1800 - 1800	670			3100000 nc	NO	BSL	
106-44-5	4-Methylphenol	110	J	670		µg/kg	OU6-SO-DI-210-0204	4/5	1800 - 1800	670			310000 nc	NO	BSL	
83-32-9	Acenaphthene	380	J	380	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	380			2900000 nc	NO	BSL	
98-86-2	Acetophenone	65	J	65	J	µg/kg	OU6-SO-DI-210-0608	1/4	370 - 1800	65			160 nc	NO	BSL	
120-12-7	Anthracene	580	J	580	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	580			10000000 nc	NO	BSL	
100-52-7	Benzaldehyde	510	JEB	510	JEB	µg/kg	OU6-SO-DI-210-0810	1/5	370 - 1800	510			6200000 nc	NO	BSL	
56-55-3	Benzo(a)anthracene	38	J	1300	J	µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	1300			2100 ca	NO	BSL	
50-32-8	Benzo(a)pyrene	40	J	1300	J	µg/kg	OU6-SO-DI-210-0002	4/5	500 - 500	1300			210 ca	YES	ASL	
205-99-2	Benzo(b)fluoranthene	48	J	1200	J	µg/kg	OU6-SO-DI-210-0002	2/4	500 - 610	1200			2100 ca	NO	BSL	
191-24-2	Benzo(g,h,i)perylene	780	J	780	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	780			2900000 nc	NO	NTX	
207-08-9	Benzo(k)fluoranthene	39	J	1200	J	µg/kg	OU6-SO-DI-210-0002	2/4	500 - 610	1200			21000 ca	NO	BSL	

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
86-74-8	Carbazole	290	J	290	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	290		86000	ca		NO	<u>BSL</u>
218-01-9	Chrysene	56	J	1500	J	µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	1500		210000	ca		NO	<u>BSL</u>
84-74-2	Di-n-Butylphthalate	640	JEB	1100	EB	µg/kg	OU6-SO-DI-210-0608	2/5	370 - 1800	1100		6200000	nc		NO	<u>BSL</u>
206-44-0	Fluoranthene	83	J	2700		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2700		2200000	nc		NO	<u>BSL</u>
86-73-7	Fluorene	85	J	260	J	µg/kg	OU6-SO-DI-210-0002	2/4	370 - 500	260		2600000	nc		NO	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	830	J	830	J	µg/kg	OU6-SO-DI-210-0002	1/4	370 - 610	830		2100	ca		NO	<u>BSL</u>
85-01-8	Phenanthrene	57	J	2300		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2300		10000000	nc		NO	NTX
108-95-2	Phenol	310	J	14000	*	µg/kg	OU6-SO-DI-210-0204	2/4	610 - 1800	14000		10000000	nc		NO	<u>BSL</u>
129-00-0	Pyrene	84	J	2400		µg/kg	OU6-SO-DI-210-0002	4/4	0 - 0	2400		2900000	nc		NO	<u>BSL</u>
72-54-8	4,4'-DDD	48		48		µg/kg	OU6-SO-DI-210-0002	1/5	3.5 - 3.8	48	4.6	10000	ca		NO	<u>BSL</u>
72-55-9	4,4'-DDE	4.2	#	22	#	µg/kg	OU6-SO-DI-210-0204	4/5	3.8 - 3.8	22	16.7	7000	ca		NO	<u>BSL</u>
50-29-3	4,4'-DDT	4.1	#	31		µg/kg	OU6-SO-DI-210-0002	2/5	3.5 - 3.8	31	29.1	7000	ca*	72000	NO	<u>BSL</u>
5103-71-9	alpha-Chlordane	2.1		33	*	µg/kg	OU6-SO-DI-210-0204	2/5	2 - 2	33	4.88	6500	ca		NO	NTX
AROCLORTOTC	Aroclor, Total (Conservative)	422		4158.5		µg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	4158.5		1000	ca		YES	<u>ASL</u>
11100-14-4	Aroclor-1268	250		4000	*	µg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	4000	46.1	1000	ca		YES	<u>ASL</u>
5103-74-2	gamma-Chlordane	3.6		3.6		µg/kg	OU6-SO-DI-210-0204	1/5	1.9 - 2	3.6	2.67	6500	ca	72000	NO	NTX
1024-57-3	Heptachlor Epoxide	4.2		4.2		µg/kg	OU6-SO-DI-210-0204	1/5	1.9 - 2	4.2	2.33	190	ca*	5000	NO	<u>BSL</u>
TE	Toxicity Equivalency	0.0084	J	0.0084	J	µg/kg	OU6-SO-DI-210-0204	1/1	0 - 0	0.0084		0.027	ca		NO	<u>BSL</u>
7429-90-5	Aluminum	2790	J	10100		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	10100	12900				NO	EPA-I
7440-36-0	Antimony	1.1	J	1.6	J	mg/kg	OU6-SO-DI-210-0608	2/4	0.57 - 0.61	1.6	2.86	41	nc		NO	<u>BSL</u>
7440-38-2	Arsenic	2.7		10		mg/kg	OU6-SO-DI-210-0204	4/4	0 - 0	10	5.67	1.6	ca*	770	YES	<u>ASL</u>
7440-39-3	Barium	162		923		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	923	57.5	6700	nc	710000	NO	<u>BSL</u>
7440-41-7	Beryllium	0.78		0.84		mg/kg	OU6-SO-DI-210-0406	2/5	0.28 - 0.34	0.84	0.719	1900	nc	1400	NO	<u>BSL</u>

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
7440-43-9	Cadmium	1	J	1	J	mg/kg	OU6-SO-DI-210-0608	1/5	0.094 - 0.28	1	0.397	45	nc	1800	NO	BSL
7440-70-2	Calcium	581		3740	J	mg/kg	OU6-SO-DI-210-0810	5/5	0 - 0	3740	1600				NO	NUT
7440-47-3	Chromium	12.4		337		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	337	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	3.6	J	46.1	J	mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	46.1	6.35				NO	EPA-I
7440-50-8	Copper	81.3	J	33600		mg/kg	OU6-SO-ES304-203-0204	9/10	150 - 150	33600	28.8				NO	EPA-I
7439-89-6	Iron	10300	J	36600		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	36600	16000				NO	EPA-I
7439-92-1	Lead	37.7		10900		mg/kg	OU6-SO-ES304-203-0204	10/10	0 - 0	10900	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	3610		159000		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	159000	3250				NO	NUT
7439-96-5	Manganese	199	J	473	J	mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	473	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.077	J	0.41		mg/kg	OU6-SO-DI-210-0204	3/4	0.061 - 0.061	0.41	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	17.8		835		mg/kg	OU6-SO-DI-210-0204	5/5	0 - 0	835	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	479	J	1210		mg/kg	OU6-SO-DI-210-0002	5/5	0 - 0	1210	961				NO	NUT
7440-22-4	Silver	0.39	J	0.39	J	mg/kg	OU6-SO-DI-210-0608	1/4	0.21 - 0.38	0.39	0.508	510	nc		NO	BSL
7440-23-5	Sodium	104	J	5180	J	mg/kg	OU6-SO-DI-210-0810	2/5	74.6 - 129	5180	76.4				NO	NUT
7440-62-2	Vanadium	9	J	31.2	J	mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	31.2	34.2	720	nc		NO	BSL
7440-66-6	Zinc	141		673		mg/kg	OU6-SO-DI-210-0608	5/5	0 - 0	673	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	1.3		80		%	OU6-SO-DI-210-0204	8/10	0.1 - 0.1	80				1	YES	ASL

TABLE 2.17
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
250 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection
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Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

Background values are the average of off-site background concentrations.
 (3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason:

* = From dilution analysis or estimated maximum possible concentration

Infrequent Detection but Associated Historically (HIST)

= Possible false positive due to interference

Frequent Detection (FD)

ca = Carcinogenic

Toxicity Information Available (TX)

ca* = where nc < 100X ca

Above Screening Levels (ASL)

ca** = where nc < 10X ca

Deletion Reason:

nc = Non-Carcinogenic

Infrequent Detection (IFD)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Background Levels (BKG)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

No Toxicity Information (NTX)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

Essential Nutrient (NUT)

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

TABLE 2.18
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
DPW LOT
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: DPW LOT

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
AROCLORTOTC	Aroclor, Total (Conservative)	470		800		µg/kg	OU6-SO-DPW-102-0002	2/2	0 - 0	800		1000	ca		NO	BSL
11100-14-4	Aroclor-1268	70		400		µg/kg	OU6-SO-DPW-102-0002	2/2	0 - 0	400		1000	ca		NO	BSL
7440-50-8	Copper	37		603		mg/kg	OU6-SO-DPW-102-0406	8/12	200 - 200	603		28.8			NO	EPA-I
7439-92-1	Lead	41	J	2160		mg/kg	OU6-SO-DPW-102-0406	10/12	100 - 100	2160		80.8	750 nc		YES	ASL
ASBESTOS	Asbestos	0.9		30		%	OU6-SO-DPW-102-0406	5/12	0.1 - 0.1	30			1		YES	ASL

Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

* = From dilution analysis or estimated maximum possible concentration

Frequent Detection (FD)

= Possible false positive due to interference

Toxicity Information Available (TX)

ca = Carcinogenic

Above Screening Levels (ASL)

ca* = where nc < 100X ca

Deletion Reason: Infrequent Detection (IFD)

ca** = where nc < 10X ca

Background Levels (BKG)

nc = Non-Carcinogenic

No Toxicity Information (NTX)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Essential Nutrient (NUT)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.19
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
251 EAST MAIN STREET
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 251 EAST MAIN STREET

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection
7440-50-8	Copper	122	J	764		mg/kg	OU6-SO-ES251-203-0406	3/4	200 - 200	764	28.8			<u>NO</u>	EPA-I	
7439-92-1	Lead	38	J	489		mg/kg	OU6-SO-ES251-203-0406	4/4	0 - 0	489	80.8	750 nc		<u>NO</u>	BSL	
ASBESTOS	Asbestos	6.7		6.7		%	OU6-SO-ES251-203-0406	1/4	0.1 - 0.1	6.7	1			<u>YES</u>	ASL	

Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

J = Estimated Value

an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

* = From dilution analysis or estimated maximum possible concentration

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

= Possible false positive due to interference

Frequent Detection (FD)

ca = Carcinogenic

Toxicity Information Available (TX)

ca* = where nc < 100X ca

Above Screening Levels (ASL)

ca** = where nc < 10X ca

Deletion Reason: Infrequent Detection (IFD)

nc = Non-Carcinogenic

Background Levels (BKG)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

No Toxicity Information (NTX)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of

approved toxicity criteria

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAl INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection	
67-64-1	Acetone	15	JTB	15	JTB	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	15			160000	nc		<u>NO</u>	<u>BSL</u>
75-15-0	Carbon Disulfide	29	J	29	J	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	29			36000	nc	720000	<u>NO</u>	<u>BSL</u>
75-09-2	Methylene Chloride	5	JTB	5	JTB	µg/kg	OU3-D-SB03-0608	1/1	0 - 0	5			9100	ca	13000	<u>NO</u>	<u>BSL</u>
105-67-9	2,4-Dimethylphenol	1600		1600		µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	1600			120000	nc		<u>NO</u>	<u>BSL</u>
91-57-6	2-Methylnaphthalene	89	J	210	J	µg/kg	OU3-D-SB04-1214	5/10	390 - 11000	210			5600	nc		<u>NO</u>	<u>BSL</u>
95-48-7	2-Methylphenol	540	J	540	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	540			310000	nc		<u>NO</u>	<u>BSL</u>
106-44-5	4-Methylphenol	460		730		µg/kg	OU3-D-SB02-0204	2/10	380 - 11000	730			31000	nc		<u>NO</u>	<u>BSL</u>
83-32-9	Acenaphthene	340	J	1500	J	µg/kg	OU3-D-SB03-0608	3/10	390 - 11000	1500			370000	nc		<u>NO</u>	<u>BSL</u>
208-96-8	Acenaphthylene	56	J	330	J	µg/kg	OU3-D-SB04-1214	4/10	390 - 11000	330			5600	nc		<u>NO</u>	<u>BSL</u>
120-12-7	Anthracene	67	J	2500	J	µg/kg	OU3-D-SB06-0204	8/10	390 - 530	2500			2200000	nc		<u>NO</u>	<u>BSL</u>
56-55-3	Benzo(a)anthracene	380	J	11000	*J	µg/kg	OU3-D-SB03-0002	6/10	390 - 610	11000			620	ca		<u>YES</u>	<u>ASL</u>
50-32-8	Benzo(a)pyrene	130	J	9000	*J	µg/kg	OU3-D-SB03-0002	8/10	390 - 530	9000			62	ca		<u>YES</u>	<u>ASL</u>
205-99-2	Benzo(b)fluoranthene	250	J	12000	*J	µg/kg	OU3-D-SB03-0002	6/10	390 - 610	12000			620	ca		<u>YES</u>	<u>ASL</u>
191-24-2	Benzo(g,h,i)perylene	240	J	7900	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 530	7900			230000	nc		<u>NO</u>	<u>BSL</u>
207-08-9	Benzo(k)fluoranthene	290	J	5900	J	µg/kg	OU3-D-SB06-0204	6/10	390 - 610	5900			6200	ca		<u>NO</u>	<u>BSL</u>
117-81-7	bis(2-Ethylhexyl)phthalate	46	J	930		µg/kg	OU3-D-SB04-1214	5/10	380 - 11000	930			35000	ca*		<u>NO</u>	<u>BSL</u>
86-74-8	Carbazole	110	J	910	J	µg/kg	OU3-D-SB03-0002	4/10	390 - 11000	910			24000	ca		<u>NO</u>	<u>BSL</u>
218-01-9	Chrysene	54	J	16000	*	µg/kg	OU3-D-SB02-0204	8/10	390 - 520	16000			62000	ca		<u>NO</u>	<u>BSL</u>
53-70-3	Dibenz(a,h)anthracene	81	J	1800	J	µg/kg	OU3-D-SB03-0002	6/10	390 - 570	1800			62	ca		<u>YES</u>	<u>ASL</u>
132-64-9	Dibenzofuran	150	J	530	J	µg/kg	OU3-D-SB03-0608	4/10	390 - 11000	530			29000	nc		<u>NO</u>	<u>BSL</u>
84-66-2	Diethylphthalate	100	J	18000	J	µg/kg	OU3-D-SB06-0204	2/10	380 - 570	18000			4900000	nc		<u>NO</u>	<u>BSL</u>
131-11-3	Dimethylphthalate	89	J	89	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	89			10000000	max		<u>NO</u>	<u>BSL</u>
84-74-2	Di-n-Butylphthalate	1200	J	1200	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	1200			610000	nc		<u>NO</u>	<u>BSL</u>

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAl INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	Soil Screening Level for Inhalation	(4) COPC Flag	Rationale for Contaminant Deletion or Selection	
206-44-0	Fluoranthene	100	J	16000	*J, J	µg/kg	OU3-D-SB03-0002, OU3-D-SB06-0204	8/10	390 - 520	16000			230000	nc		<u>NO</u>	<u>BSL</u>
86-73-7	Fluorene	110	J	1500	J	µg/kg	OU3-D-SB06-0204	7/10	390 - 530	1500			270000	nc		<u>NO</u>	<u>BSL</u>
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	7700	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 530	7700			620	ca		<u>YES</u>	<u>ASL</u>
91-20-3	Naphthalene	170	J	370	J	µg/kg	OU3-D-SB03-0608	5/10	390 - 11000	370			5600	nc	170000	<u>NO</u>	<u>BSL</u>
86-30-6	N-Nitroso-diphenylamine	260	J	260	J	µg/kg	OU3-D-SB02-0204	1/10	380 - 11000	260			99000	ca		<u>NO</u>	<u>BSL</u>
85-01-8	Phenanthrene	97	J	14000	*J	µg/kg	OU3-D-SB03-0002	8/10	390 - 520	14000			2200000	nc		<u>NO</u>	<u>BSL</u>
108-95-2	Phenol	1800		1800		µg/kg	OU3-D-SB02-0204	1/8	390 - 11000	1800			3700000	nc		<u>NO</u>	<u>BSL</u>
129-00-0	Pyrene	130	J	21000	*J	µg/kg	OU3-D-SB03-0002	7/10	390 - 610	21000			230000	nc		<u>NO</u>	<u>BSL</u>
TOTPAH	Total PAH	4814		4814		µg/kg	OU3-D-SB04-1416-MAX	1/1	0 - 0	4814						<u>NO</u>	<u>NTX</u>
72-54-8	4,4'-DDD	7.9	J	7.9	J	µg/kg	OU3-D-SB06-0204	1/11	3.8 - 120	7.9			4.6	ca		<u>NO</u>	<u>BSL</u>
72-55-9	4,4'-DDE	6.7	J	6.7	J	µg/kg	OU3-D-SB03-0608	1/11	3.8 - 120	6.7			16.7	ca		<u>NO</u>	<u>BSL</u>
50-29-3	4,4'-DDT	17	J	17	J	µg/kg	OU3-D-SB03-0608	1/10	3.8 - 120	17			29.1	ca*		<u>NO</u>	<u>BSL</u>
5103-71-9	alpha-Chlordane	2.5		2.5		µg/kg	OU3-D-SB06-0204	1/11	1.9 - 59	2.5			4.88	ca	72000	<u>NO</u>	<u>BSL</u>
AROCLORTOTC	Aroclor, Total (Conservative)	432.5		68750		µg/kg	OU3-D-SB02-0204	5/11	38 - 60	68750			220	ca		<u>YES</u>	<u>ASL</u>
37324-23-5	Aroclor-1262	480	J	30000	J	µg/kg	BPM B+50	4/11	38 - 63	30000			36.8	ca		<u>YES</u>	<u>ASL</u>
11100-14-4	Aroclor-1268	150		39000	*	µg/kg	OU3-D-SB02-0204	3/11	38 - 510	39000			46.1	ca		<u>YES</u>	<u>ASL</u>
7421-93-4	Endrin Aldehyde	50		830		µg/kg	OU3-D-SB02-0204	2/11	3.8 - 51	830			4.56	nc		<u>NO</u>	<u>BSL</u>
53494-70-5	Endrin Ketone	32	J	32	J	µg/kg	OU3-D-SB03-0002	1/11	3.8 - 120	32			5.31	nc		<u>NO</u>	<u>BSL</u>
5103-74-2	gamma-Chlordane	5.2	J	9.7		µg/kg	OU3-D-SB06-0204	2/11	1.9 - 59	9.7			2.67	ca	72000	<u>NO</u>	<u>BSL</u>
1024-57-3	Heptachlor Epoxide	2.6		2.6		µg/kg	OU3-D-SB06-0204	1/11	1.9 - 59	2.6			2.33	ca*	5000	<u>NO</u>	<u>BSL</u>
TE	Toxicity Equivalency	0.00947	J	7.81	J	µg/kg	OU3-D-SB02-0204	3/3	0 - 0	7.81			0.0039	ca		<u>YES</u>	<u>ASL</u>
7429-90-5	Aluminum	4200		12500		mg/kg	OU3-D-SB04-1416-MAX	11/11	0 - 0	12500			12900			<u>NO</u>	<u>EPA-I</u>
7440-38-2	Arsenic	3.2	J	35.5		mg/kg	OU3-D-SB02-1416	6/11	4.8 - 7.4	35.5			5.67	ca*	770	<u>YES</u>	<u>ASL</u>

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAl INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	Soil Screening Level for Inhalation	(4) COPC Flag	Rationale for Contaminant Deletion or Selection
7440-39-3	Barium	27.5		19700		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	19700	57.5	540	nc	710000	<u>YES</u>	<u>ASL</u>
7440-41-7	Beryllium	0.26		0.6		mg/kg	OU3-D-SB03-0608	10/11	0.35 - 0.35	0.6	0.719	15	nc	1400	<u>NO</u>	<u>BSL</u>
7440-43-9	Cadmium	0.59		10.2	J	mg/kg	OU3-D-SB08-0810	8/9	0.8 - 0.8	10.2	0.397	3.7	nc	1800	<u>YES</u>	<u>ASL</u>
7440-70-2	Calcium	944		12300		mg/kg	OU3-D-SB03-0608	11/11	0 - 0	12300	1600				<u>NO</u>	<u>NUT</u>
7440-47-3	Chromium	18.6	J	199		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	199	17	30	ca	280	<u>YES</u>	<u>ASL</u>
7440-48-4	Cobalt	6.4		32.6		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	32.6	6.35				<u>NO</u>	EPA-I
7440-50-8	Copper	22.7	J	69600		mg/kg	OU3-D-SB02-0204	32/47	200 - 300	69600	28.8				<u>NO</u>	EPA-I
7439-89-6	Iron	16800		123000		mg/kg	OU3-D-SB04-1214	11/11	0 - 0	123000	16000				<u>NO</u>	EPA-I
7439-92-1	Lead	15.2		49000		mg/kg	OU3-D-SB02-0204	41/49	100 - 100	49000	80.8	400	nc		<u>YES</u>	<u>ASL</u>
7439-95-4	Magnesium	2830		77200		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	77200	3250				<u>NO</u>	<u>NUT</u>
7439-96-5	Manganese	208		938		mg/kg	OU3-D-SB02-1416	11/11	0 - 0	938	306	180	nc		<u>YES</u>	<u>ASL</u>
7439-97-6	Mercury	0.22		1.1	, J	mg/kg	BPM B+50, OU3-D-SB04-1416-MAX	6/11	0.11 - 0.17	1.1	0.111	2.3	nc	10	<u>NO</u>	<u>BSL</u>
7440-02-0	Nickel	13.3	J	547		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	547	12.5	160	nc	14000	<u>YES</u>	<u>ASL</u>
7440-09-7	Potassium	644	J	2720	J	mg/kg	OU3-D-SB04-1416-MAX	11/11	0 - 0	2720	961				<u>NO</u>	<u>NUT</u>
7782-49-2	Selenium	1.6	J	2.2	J	mg/kg	BPM B+50	2/11	0.33 - 1.7	2.2	0.499	39	nc		<u>NO</u>	<u>BSL</u>
7440-22-4	Silver	0.67		10.5		mg/kg	BPM B+50	5/11	0.48 - 0.66	10.5	0.508	39	nc		<u>NO</u>	<u>BSL</u>
7440-23-5	Sodium	258	J	5500		mg/kg	OU3-D-SB03-0608	10/10	0 - 0	5500	76.4				<u>NO</u>	<u>NUT</u>
7440-62-2	Vanadium	16.4	J	33.2	, J	mg/kg	OU3-D-SB03-0002, OU3-D-SB04-1416-MAX, OU3-D-SB08-0810	10/11	0.35 - 0.35	33.2	34.2	55	nc		<u>NO</u>	<u>BSL</u>
7440-66-6	Zinc	45.6		3830		mg/kg	OU3-D-SB02-0204	11/11	0 - 0	3830	112	2300	nc		<u>YES</u>	<u>ASL</u>
ASBESTOS	Asbestos	0.9		40		%	OU3-D-SB02-0204	31/50	0.1 - 0.1	40		1			<u>YES</u>	<u>ASL</u>

TABLE 2.20
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
BEACON POINT AREA
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: BEACON POINT AREA

CAS Number	Chemical	Minimum Concentration ⁽¹⁾	Minimum Qualifier	Maximum Concentration ⁽¹⁾	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value ⁽²⁾	Screening Toxicity Value ⁽³⁾	Soil Screening Level for Inhalation ⁽⁴⁾	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3) Screening Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
78-93-3	2-Butanone	3	J	11	J	µg/kg	OU6-SO-BPM-102-0608	2/4	8 - 10	11			2700000	nc	NO	BSL	
67-64-1	Acetone	40		56	J	µg/kg	OU6-SO-BPM-102-0204	3/4	8 - 8	56			600000	nc	NO	BSL	
71-43-2	Benzene	2	J	2	J	µg/kg	OU6-SO-BPM-102-0002	1/4	8 - 10	2			1300	ca*	800	NO	BSL
74-83-9	Bromomethane	1	J	1	J	µg/kg	OU6-SO-BPM-102-0608	1/4	7 - 10	1			1300	nc	9000	NO	BSL
75-15-0	Carbon Disulfide	1	J	8		µg/kg	OU6-SO-BPM-102-0002	3/4	10 - 10	8			72000	nc	720000	NO	BSL
74-87-3	Chloromethane	3	J	3	J	µg/kg	OU6-SO-BPM-102-0608	1/4	7 - 10	3			2600	ca		NO	BSL
100-41-4	Ethylbenzene	1	J	1	J	µg/kg	OU6-SO-BPM-102-0204, OU6-SO-BPM-102-0608	2/4	7 - 8	1			20000	ca	400000	NO	BSL
108-88-3	Toluene	2	J	6	J	µg/kg	OU6-SO-BPM-102-0204	3/4	8 - 8	6			52000	sat	650000	NO	BSL
1330-20-7	Total Xylenes	5	J	12		µg/kg	OU6-SO-BPM-102-0608	2/4	7 - 8	12			42000	nc		NO	BSL
92-52-4	1,1'-Biphenyl	52	J	52	J	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	52			35000	sat		NO	BSL
105-67-9	2,4-Dimethylphenol	78	J	78	J	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	78			1200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	56	J	120	J	µg/kg	OU6-SO-BPM-102-0204	2/4	390 - 1700	120			19000	nc		NO	NTX
83-32-9	Acenaphthene	200	J	950	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	950			2900000	nc		NO	BSL
208-96-8	Acenaphthylene	69	J	1000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	1000			19000	nc		NO	NTX
120-12-7	Anthracene	700	J	4900	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	4900			10000000	nc		NO	BSL
100-52-7	Benzaldehyde	120	JEB	120	JEB	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	120			6200000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	1900	J	15000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	15000			2100	ca		YES	ASL
50-32-8	Benzo(a)pyrene	1600	J	14000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	14000			210	ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	1500	J	12000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	12000			2100	ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	220	J	2000	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	2000			2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	1500	J	14000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	14000			21000	ca		NO	BSL
117-81-7	bis(2-Ethylhexyl)phthalate	83	J	190	J	µg/kg	OU6-SO-BPM-102-0204	2/3	1700 - 1700	190			120000	ca*		NO	BSL
86-74-8	Carbazole	230	J	790	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	790			86000	ca		NO	BSL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2) Screening Toxicity Value	(3) Soil Screening Level for Inhalation	(4) COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
															BSL	
218-01-9	Chrysene	1900	J	15000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	15000		210000	ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	300	J	3500	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	3500		210	ca		YES	ASL
132-64-9	Dibenzofuran	120	J	430	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	430		310000	nc		NO	BSL
206-44-0	Fluoranthene	4100	*J	31000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	31000		2200000	nc		NO	BSL
86-73-7	Fluorene	290	J	1400	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	1400		2600000	nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	800	J	9100	J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	9100		2100	ca		YES	ASL
91-20-3	Naphthalene	40	J	87	J	µg/kg	OU6-SO-BPM-102-0204	3/4	1700 - 1700	87		19000	nc	170000	NO	BSL
85-01-8	Phenanthrene	3100	*J	19000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	19000		10000000	nc		NO	NTX
108-95-2	Phenol	280	JEB	280	JEB	µg/kg	OU6-SO-BPM-102-0204	1/3	390 - 1700	280		10000000	nc		NO	BSL
129-00-0	Pyrene	5300	*J	42000	*J	µg/kg	OU6-SO-BPM-102-0002	4/4	0 - 0	42000		2900000	nc		NO	BSL
72-55-9	4,4'-DDE	15	#	25	#	µg/kg	OU6-SO-BPM-102-0002	2/4	3.7 - 18	25		16.7	ca		NO	BSL
50-29-3	4,4'-DDT	7.7	#	35	#	µg/kg	OU6-SO-BPM-102-0406, OU6-SO-BPM-102-0608	4/4	0 - 0	35		29.1	ca*		NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	870		23810		µg/kg	OU6-SO-BPM-102-0204	5/5	0 - 0	23810		1000	ca		YES	ASL
11097-69-1	Aroclor-1254	1200		2400	*	µg/kg	OU6-SO-BPM-102-0002	2/5	37 - 180	2400		740	ca**		YES	ASL
37324-23-5	Aroclor-1262	3000	*	3600	*	µg/kg	OU6-SO-BPM-102-0406	2/5	34 - 180	3600		36.8	ca		YES	ASL
11100-14-4	Aroclor-1268	350		23000	*	µg/kg	OU6-SO-BPM-102-0204	5/5	0 - 0	23000		46.1	ca		YES	ASL
60-57-1	Dieldrin	4.5	#	49		µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	49		13.1	ca	1000	NO	BSL
1031-07-8	Endosulfan Sulfate	69	*#	2500	*#	µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	2500		4.69			NO	NTX
7421-93-4	Endrin Aldehyde	38	#	670	*#	µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	670		4.56	nc		NO	NTX
53494-70-5	Endrin Ketone	12		12		µg/kg	OU6-SO-BPM-102-0608	1/4	3.4 - 18	12		5.31	nc		NO	NTX
5103-74-2	gamma-Chlordane	5.4	#	17		µg/kg	OU6-SO-BPM-102-0204	3/4	1.9 - 1.9	17		2.67	ca	72000	NO	NTX
1024-57-3	Heptachlor Epoxide	2.1		2.8	#	µg/kg	OU6-SO-BPM-102-0608	2/4	1.9 - 9.2	2.8		2.33	ca*	5000	NO	BSL
72-43-5	Methoxychlor	31	#	270		µg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	270		22.3	nc		NO	BSL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	(1) Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
															ASL	BSL
TE	Toxicity Equivalency	0.769		0.769		µg/kg	OU6-SO-BPM-102-0204	1/1	0 - 0	0.769		0.027	ca		YES	ASL
7429-90-5	Aluminum	5280		12000		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	12000	12900				NO	EPA-I
7440-36-0	Antimony	2.4		11.3	J	mg/kg	OU6-SO-BPM-102-0406	2/4	0.69 - 1.1	11.3	2.86	41	nc		NO	BSL
7440-38-2	Arsenic	2.3	J	3.9		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	3.9	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	227		3550		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	3550	57.5	6700	nc	710000	NO	BSL
7440-43-9	Cadmium	0.44		1.9	J	mg/kg	OU6-SO-BPM-102-0406	3/4	0.33 - 0.33	1.9	0.397	45	nc	1800	NO	BSL
7440-70-2	Calcium	3940	J	166000	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	166000	1600				NO	NUT
7440-47-3	Chromium	19		4270		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	4270	17	64	ca	280	YES	ASL
7440-48-4	Cobalt	3.2	, J	6.7		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	6.7	6.35				NO	EPA-I
7440-50-8	Copper	75		40700		mg/kg	OU6-SO-BPM-101-0608	9/9	0 - 0	40700	28.8				NO	EPA-I
7439-89-6	Iron	11700		30600		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	30600	16000				NO	EPA-I
7439-92-1	Lead	47		14800		mg/kg	OU6-SO-BPM-101-0608	10/10	0 - 0	14800	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	3720		38000		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	38000	3250				NO	NUT
7439-96-5	Manganese	173	J	7220	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	7220	306	1900	nc		YES	ASL
7439-97-6	Mercury	0.13	J	0.21	J	mg/kg	OU6-SO-BPM-102-0204	3/4	0.051 - 0.051	0.21	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	15.7		91.4	J	mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	91.4	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	612		1100		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	1100	961				NO	NUT
7782-49-2	Selenium	6.5	J	6.5	J	mg/kg	OU6-SO-BPM-102-0406	1/4	0.77 - 1.5	6.5	0.499	510	nc		NO	BSL
7440-22-4	Silver	0.45		0.8		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	0.8	0.508	510	nc		NO	BSL
7440-23-5	Sodium	242		1210	J	mg/kg	OU6-SO-BPM-102-0406	3/4	205 - 205	1210	76.4				NO	NUT
7440-62-2	Vanadium	15.3		158		mg/kg	OU6-SO-BPM-102-0406	4/4	0 - 0	158	34.2	720	nc		NO	BSL
7440-66-6	Zinc	171	J	568		mg/kg	OU6-SO-BPM-102-0204	4/4	0 - 0	568	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.9		60		%	OU6-SO-BPM-101-0608	9/10	0.1 - 0.1	60		1			YES	ASL

TABLE 2.21
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
1 BEACON POINT ROAD
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 1 BEACON POINT ROAD

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection	
78-93-3	2-Butanone	18		18		µg/kg	OU6-SO-BA2-205A-0204	1/3	8 - 14	18			2700000	nc		NO	BSL
67-64-1	Acetone	17	J	170		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	170			600000	nc		NO	BSL
79-20-9	Methyl Acetate	12		18		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	8 - 8	18			9200000	nc		NO	BSL
91-57-6	2-Methylnaphthalene	220	J	4200		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	380 - 380	4200			19000	nc		NO	NTX
83-32-9	Acenaphthene	83	J	4400		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	4400			2900000	nc		NO	BSL
208-96-8	Acenaphthylene	90	J	7100		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	7100			19000	nc		NO	NTX
120-12-7	Anthracene	190	J	14000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	14000			10000000	nc		NO	BSL
56-55-3	Benzo(a)anthracene	570		43000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	43000			2100	ca	YES	ASL	
50-32-8	Benzo(a)pyrene	430		36000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	36000			210	ca	YES	ASL	
205-99-2	Benzo(b)fluoranthene	430		31000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	31000			2100	ca	YES	ASL	
191-24-2	Benzo(g,h,i)perylene	270	J	29000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	29000			2900000	nc		NO	NTX
207-08-9	Benzo(k)fluoranthene	350	J	37000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	37000			21000	ca	YES	ASL	
86-74-8	Carbazole	71	J	5800		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5800			86000	ca	NO	BSL	
218-01-9	Chrysene	620		47000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	47000			210000	ca	NO	BSL	
53-70-3	Dibenzo(a,h)anthracene	140	J	12000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	12000			210	ca	YES	ASL	
132-64-9	Dibenzofuran	49	J	3300		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	3300			310000	nc	NO	BSL	
206-44-0	Fluoranthene	1200		70000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	70000			2200000	nc	NO	BSL	
86-73-7	Fluorene	170	J	11000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	11000			2600000	nc	NO	BSL	
193-39-5	Indeno(1,2,3-cd)pyrene	260	J	26000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	26000			2100	ca	YES	ASL	
91-20-3	Naphthalene	4700		4700		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/3	380 - 1800	4700			19000	nc	170000	NO	BSL
85-01-8	Phenanthrene	850		55000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	55000			10000000	nc		NO	NTX
129-00-0	Pyrene	1100		71000		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	71000			2900000	nc		NO	BSL
72-55-9	4,4'-DDE	42		42		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/3	3.5 - 3.5	42			7000	ca	NO	BSL	
50-29-3	4,4'-DDT	15		47		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	47			29.1	7000 ca*	NO	BSL	

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	(3)	(4)	COPC Flag	(5) Rationale for Contaminant Deletion or Selection
1031-07-8	Endosulfan Sulfate	11		48		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	48	4.69	370000	ca		NO	NTX
53494-70-5	Endrin Ketone	8.8		30		µg/kg	OU6-SO-BA2-205A-0002-MAX	2/3	3.5 - 3.5	30	5.31	18000	nc		NO	NTX
5103-74-2	gamma-Chlordane	6.8		380		µg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	380	2.67	6500	ca	72000	NO	NTX
TE	Toxicity Equivalency	0.011		0.011		µg/kg	OU6-SO-BA2-205A-0002-MAX	1/1	0 - 0	0.011		0.027	ca		NO	BSL
7429-90-5	Aluminum	5820		12300		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	12300	12900				NO	EPA-I
7440-38-2	Arsenic	2.4		5.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5.2	5.67	1.6	ca*	770	YES	ASL
7440-39-3	Barium	29.1		642		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	642	57.5	6700	nc	710000	NO	BSL
7440-70-2	Calcium	644	J	1060		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	1060	1600				NO	NUT
7440-47-3	Chromium	13.4		27.8		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	27.8	17	64	ca	280	NO	BSL
7440-48-4	Cobalt	3.6		5.7		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	5.7	6.35				NO	EPA-I
7440-50-8	Copper	16.5		18700		mg/kg	OU6-SO-BA2-213-0204	21/28	150 - 150	18700	28.8				NO	EPA-I
7439-89-6	Iron	9030		17100		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	17100	16000				NO	EPA-I
7439-92-1	Lead	8.2		9340		mg/kg	OU6-SO-BA2-213-0204	21/28	40 - 40	9340	80.8	750	nc		YES	ASL
7439-95-4	Magnesium	2590		6000		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	6000	3250				NO	NUT
7439-96-5	Manganese	158		205		mg/kg	OU6-SO-BA2-205A-0406	3/3	0 - 0	205	306	1900	nc		NO	BSL
7439-97-6	Mercury	0.058	J	0.058	J	mg/kg	OU6-SO-BA2-205A-0204	1/3	0.038 - 0.044	0.058	0.111	31	nc	10	NO	BSL
7440-02-0	Nickel	12.2		45.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	45.2	12.5	2000	nc	14000	NO	BSL
7440-09-7	Potassium	934		2060		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	2060	961				NO	NUT
7440-23-5	Sodium	126	J	256	J	mg/kg	OU6-SO-BA2-205A-0406	2/3	64.2 - 64.2	256	76.4				NO	NUT
7440-62-2	Vanadium	19.8		37.2		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	37.2	34.2	720	nc		NO	BSL
7440-66-6	Zinc	33.1		142		mg/kg	OU6-SO-BA2-205A-0002-MAX	3/3	0 - 0	142	112	10000	nc		NO	BSL
ASBESTOS	Asbestos	0.9	, *	40		%	OU6-SO-BA2-213-0204	21/28	0.1 - 0.1	40		1			YES	ASL

TABLE 2.22
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
AIRPORT PROPERTY NORTH OF MARINE BASIN
REMEDIAL INVESTIGATION
RAYMARK OUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: AIRPORT PROPERTY NORTH OF MARINE BASIN

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

(2) N/A - Refer to supporting information for background discussion.

Background values are the average of off-site background concentrations.

(3) Region IX PRG industrial soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

Frequent Detection (FD)

Toxicity Information Available (TX)

Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)

Background Levels (BKG)

No Toxicity Information (NTX)

Essential Nutrient (NUT)

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

Definitions: N/A = Not Applicable

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

EB = present in equipment blank

* = From dilution analysis or estimated maximum possible concentration

= Possible false positive due to interference

ca = Carcinogenic

ca* = where nc < 100X ca

ca** = where nc < 10X ca

nc = Non-Carcinogenic

sat = Region IX PRG for this non-carcinogen was based on saturation. The value shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection
78-93-3	2-Butanone	18		18	J	µg/kg	OU6-SO-WP-201-0002-MAX	1/3	4 - 6	18		730000 nc		NO	BSL	
67-64-1	Acetone	13	J	84	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	84		160000 nc		NO	BSL	
71-43-2	Benzene	0.9	J	0.9	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	0.9		600 ca*	800	NO	BSL	
75-15-0	Carbon Disulfide	3	J	3	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	3		36000 nc	720000	NO	BSL	
108-90-7	Chlorobenzene	32	J	32	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	32		15000 nc	130000	NO	BSL	
156-59-2	cis-1,2-Dichloroethene	0.7	J	0.7	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	0.7		4300 nc		NO	BSL	
110-82-7	Cyclohexane	5	J	5	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	5		14000 sat		NO	BSL	
100-41-4	Ethylbenzene	110	*J	110	*J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	110		8900 ca	400000	NO	BSL	
98-82-8	Isopropylbenzene	31	J	31	J	µg/kg	OU6-SO-WP-201-0406	1/3	5 - 6	31		57000 nc		NO	BSL	
79-20-9	Methyl Acetate	7		7		µg/kg	OU6-SO-WP-201-0002-MAX	1/3	4 - 6	7		2200000 nc		NO	BSL	
108-87-2	Methylcyclohexane	1		49	J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	49		260000 nc		NO	BSL	
108-88-3	Toluene	2		1000	*J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	1000		66000 sat	650000	NO	BSL	
1330-20-7	Total Xylenes	2		600	*J	µg/kg	OU6-SO-WP-201-0406	2/3	6 - 6	600		27000 nc		NO	BSL	
92-52-4	1,1'-Biphenyl	1100	J	1300	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	1300		300000 sat		NO	BSL	
105-67-9	2,4-Dimethylphenol	1200	J	3200	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3200		120000 nc		NO	BSL	
91-57-6	2-Methylnaphthalene	1300		4100	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	4100		5600 nc		NO	BSL	
95-48-7	2-Methylphenol	440	J	860	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	860		310000 nc		NO	BSL	
106-44-5	4-Methylphenol	1700	J	3300	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3300		31000 nc		NO	BSL	
83-32-9	Acenaphthene	1200		1600	J	µg/kg	OU6-SO-WP-201-0204	3/3	0 - 0	1600		370000 nc		NO	BSL	
208-96-8	Acenaphthylene	5400	J	6500		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	6500		5600 nc		YES	ASL	
98-86-2	Acetophenone	750	J	750	J	µg/kg	OU6-SO-WP-201-0406	1/3	3500 - 3800	750		49 nc		YES	ASL	
120-12-7	Anthracene	5600		6700		µg/kg	OU6-SO-WP-201-0204	3/3	0 - 0	6700		2200000 nc		NO	BSL	
100-52-7	Benzaldehyde	1200	JEB	1200	JEB	µg/kg	OU6-SO-WP-201-0406	1/3	3500 - 3800	1200		610000 nc		NO	BSL	
56-55-3	Benzo(a)anthracene	18000		24000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	24000		620 ca		YES	ASL	

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection
50-32-8	Benzo(a)pyrene	13000		19000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	19000		62 ca		<u>YES</u>	<u>ASL</u>	
205-99-2	Benzo(b)fluoranthene	10000		18000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	18000		620 ca		<u>YES</u>	<u>ASL</u>	
191-24-2	Benzo(g,h,i)perylene	5700		8800		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	8800		230000 nc		<u>NO</u>	<u>BSL</u>	
207-08-9	Benzo(k)fluoranthene	13000		16000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	16000		6200 ca		<u>YES</u>	<u>ASL</u>	
96-74-8	Carbazole	1200		2300	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	2300		24000 ca		<u>NO</u>	<u>BSL</u>	
218-01-9	Chrysene	20000		25000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	25000		62000 ca		<u>NO</u>	<u>BSL</u>	
53-70-3	Dibenzo(a,h)anthracene	3800		3800		µg/kg	OU6-SO-WP-201-0002-MAX	1/3	3800 - 5500	3800		62 ca		<u>YES</u>	<u>ASL</u>	
132-64-9	Dibenzofuran	1300		2900	J	µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	2900		29000 nc		<u>NO</u>	<u>BSL</u>	
206-44-0	Fluoranthene	28000		42000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	42000		230000 nc		<u>NO</u>	<u>BSL</u>	
86-73-7	Fluorene	4100		6500		µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	6500		270000 nc		<u>NO</u>	<u>BSL</u>	
193-39-5	Indeno(1,2,3-cd)pyrene	6000		9400		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	9400		620 ca		<u>YES</u>	<u>ASL</u>	
91-20-3	Naphthalene	910		5600		µg/kg	OU6-SO-WP-201-0406	3/3	0 - 0	5600		5600 nc	170000	<u>NO</u>	<u>BSL</u>	
85-01-8	Phenanthrene	21000		26000		µg/kg	OU6-SO-WP-201-0204, OU6-SO-WP-201-0406	3/3	0 - 0	26000		2200000 nc		<u>NO</u>	<u>BSL</u>	
108-95-2	Phenol	1800	J	3500	J	µg/kg	OU6-SO-WP-201-0406	2/3	3500 - 3500	3500		3700000 nc		<u>NO</u>	<u>BSL</u>	
129-00-0	Pyrene	32000		44000		µg/kg	OU6-SO-WP-201-0002-MAX	3/3	0 - 0	44000		230000 nc		<u>NO</u>	<u>BSL</u>	
72-55-9	4,4'-DDE	65	#	75	#	µg/kg	OU6-SO-WP-201-0406	2/4	17 - 42	75	16.7	1700 ca		<u>NO</u>	<u>BSL</u>	
50-29-3	4,4'-DDT	46	#	68		µg/kg	OU6-SO-WP-201-0002-MAX	2/4	40 - 42	68	29.1	1700 ca*		<u>NO</u>	<u>BSL</u>	
5103-71-9	alpha-Chlordane	31	J*	31	J*	µg/kg	WP-OB-B+50	1/4	8.7 - 21	31	4.88	1600 ca	72000	<u>NO</u>	<u>BSL</u>	
AROCLORTOTC	Aroclor, Total (Conservative)	15895		44575		µg/kg	OU6-SO-WP-201-0406	3/4	170 - 170	44575		220 ca		<u>YES</u>	<u>ASL</u>	
37324-23-5	Aroclor-1262	14000	J	14000	J	µg/kg	WP-OB-B+50	1/4	170 - 400	14000	36.8	220 ca		<u>YES</u>	<u>ASL</u>	
11100-14-4	Aroclor-1268	20000		43000	*	µg/kg	OU6-SO-WP-201-0406	2/4	170 - 420	43000	46.1	220 ca		<u>YES</u>	<u>ASL</u>	
959-98-8	Endosulfan I	270	J	270	J	µg/kg	WP-OB-B+50	1/4	8.7 - 21	270	4.52	37000 nc		<u>NO</u>	<u>BSL</u>	
1031-07-8	Endosulfan Sulfate	49		49		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	35 - 42	49	4.69			<u>NO</u>	NTX	

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening (3) Toxicity Value	(4) Soil Screening Level for Inhalation	COPC Flag	Rationale for Contaminant Deletion or Selection
53494-70-5	Endrin Ketone	75		75		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	35 - 42	75	5.31	1800 nc		NO	BSL	
5103-74-2	gamma-Chlordane	450		450		µg/kg	OU6-SO-WP-201-0002-MAX	1/4	18 - 22	450	2.67	1600 ca	72000	NO	BSL	
72-43-5	Methoxychlor	120		270		µg/kg	OU6-SO-WP-201-0406	2/4	210 - 220	270	22.3	31000 nc		NO	BSL	
TE	Toxicity Equivalency	2	J	2	J	µg/kg	OU6-SO-WP-201-0204	1/1	0 - 0	2		0.0039 ca		YES	ASL	
7429-90-5	Aluminum	5550		7430		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	7430	12900			NO	EPA-I	
7440-38-2	Arsenic	3.3		5.6		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	5.6	5.67	0.39 ca*	770	YES	ASL	
7440-39-3	Barium	35.2		14300		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	14300	57.5	540 nc	710000	YES	ASL	
7440-41-7	Beryllium	0.54	J	0.54	J	mg/kg	WP-OB-B+50	1/4	0.3 - 0.35	0.54	0.719	15 nc	1400	NO	BSL	
7440-43-9	Cadmium	0.4		0.83		mg/kg	OU6-SO-WP-201-0406	3/4	0.04 - 0.04	0.83	0.397	3.7 nc	1800	NO	BSL	
7440-70-2	Calcium	1140		1770		mg/kg	WP-OB-B+50	4/4	0 - 0	1770	1600			NO	NUT	
7440-47-3	Chromium	13.3		75.4		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	75.4	17	30 ca	280	YES	ASL	
7440-48-4	Cobalt	4		13.3		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	13.3	6.35			NO	EPA-I	
7440-50-8	Copper	20.1		14000	J	mg/kg	OU6-SO-WP-201-0406	6/6	0 - 0	14000	28.8			NO	EPA-I	
7439-89-6	Iron	11700	J	16400		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	16400	16000			NO	EPA-I	
7439-92-1	Lead	25.5		17300		mg/kg	OU6-SO-WP-201-0406	6/6	0 - 0	17300	80.8	400 nc		YES	ASL	
7439-95-4	Magnesium	3200		30200		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	30200	3250			NO	NUT	
7439-96-5	Manganese	172	J	321		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	321	306	180 nc		YES	ASL	
7440-02-0	Nickel	8.8		238		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	238	12.5	160 nc	14000	YES	ASL	
7440-09-7	Potassium	953	J	1670		mg/kg	OU6-SO-WP-201-0204	4/4	0 - 0	1670	961			NO	NUT	
7440-22-4	Silver	0.43	J	1.1		mg/kg	OU6-SO-WP-201-0406	2/4	0.18 - 0.51	1.1	0.508	39 nc		NO	BSL	
7440-23-5	Sodium	162	J	164		mg/kg	OU6-SO-WP-201-0002-MAX	2/4	77.7 - 108	164	76.4			NO	NUT	
7440-62-2	Vanadium	20.5		26.9		mg/kg	OU6-SO-WP-201-0002-MAX	4/4	0 - 0	26.9	34.2	55 nc		NO	BSL	
7440-66-6	Zinc	37.4		1440		mg/kg	OU6-SO-WP-201-0406	4/4	0 - 0	1440	112	2300 nc		NO	BSL	
ASBESTOS	Asbestos	2		60		%	WP-OB-B+50	5/6	0.1 - 0.1	60		1		YES	ASL	

TABLE 2.23
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WOOSTER PARK
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: WOOSTER PARK

CAS Number	Chemical	Minimum Concentration	(1) Minimum Qualifier	Maximum Concentration	(1) Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	(2)	Screening Toxicity Value	(3)	Soil Screening Level for Inhalation	(4)	COPC Flag	Rationale for Contaminant Deletion or Selection

Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

COPC = Chemical of Potential Concern

Background values are the average of off-site background concentrations.

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to an HI of 0.1

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason: Infrequent Detection but Associated Historically (HIST)

* = From dilution analysis or estimated maximum possible concentration

Frequent Detection (FD)

= Possible false positive due to interference

Toxicity Information Available (TX)

ca = Carcinogenic

Above Screening Levels (ASL)

ca* = where nc < 100X ca

Deletion Reason: Infrequent Detection (IFD)

ca** = where nc < 10X ca

Background Levels (BKG)

nc = Non-Carcinogenic

No Toxicity Information (NTX)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Essential Nutrient (NUT)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration ⁽¹⁾	Minimum Qualifier	Maximum Concentration ⁽¹⁾	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value ⁽²⁾	Screening Toxicity Value ⁽³⁾	Soil Screening Level for Inhalation ⁽⁴⁾	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
67-64-1	Acetone	38		550	J	µg/kg	OU6-SO-3A35-202-0810	4/6	31 - 80	550		160000 nc		NO	BSL
71-43-2	Benzene	1	J	1	J	µg/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	1		600 ca*	800	NO	BSL
75-15-0	Carbon Disulfide	0.9		13	J	µg/kg	OU6-SO-3A35-202-1012	2/6	5 - 12	13		36000 nc	720000	NO	BSL
100-41-4	Ethylbenzene	2	J	2	J	µg/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	2		8900 ca	400000	NO	BSL
79-20-9	Methyl Acetate	3	J	3	J	µg/kg	OU6-SO-3A35-202-0204	1/6	5 - 16	3		2200000 nc		NO	BSL
108-88-3	Toluene	22	J	22	J	µg/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	22		66000 sat	650000	NO	BSL
1330-20-7	Total Xylenes	13	J	13	J	µg/kg	OU6-SO-3A35-202-0810	1/6	5 - 16	13		27000 nc		NO	BSL
105-67-9	2,4-Dimethylphenol	370	J	370	J	µg/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	370		120000 nc		NO	BSL
106-44-5	4-Methylphenol	1100		1100		µg/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	1100		31000 nc		NO	BSL
83-32-9	Acenaphthene	76	J	76	J	µg/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	76		370000 nc		NO	BSL
208-96-8	Acenaphthylene	60	J	640	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	640		5600 nc		NO	BSL
98-86-2	Acetophenone	44		310	J	µg/kg	OU6-SO-3A35-202-0810	3/6	400 - 3800	310		49 nc		YES	ASL
120-12-7	Anthracene	110	J	550	J	µg/kg	OU6-SO-3A35-202-0608	4/6	400 - 640	550		2200000 nc		NO	BSL
100-52-7	Benzaldehyde	150	JEB	150	JEB	µg/kg	OU6-SO-3A35-202-0810	1/6	370 - 3800	150		610000 nc		NO	BSL
56-55-3	Benzo(a)anthracene	250	J	2700	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2700		620 ca		YES	ASL
50-32-8	Benzo(a)pyrene	260	J	2800	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2800		62 ca		YES	ASL
205-99-2	Benzo(b)fluoranthene	240	J	2500	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2500		620 ca		YES	ASL
191-24-2	Benzo(g,h,i)perylene	150	J	910	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	910		230000 nc		NO	BSL
207-08-9	Benzo(k)fluoranthene	210	J	2500	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2500		6200 ca		NO	BSL
85-68-7	Butylbenzylphthalate	74		74		µg/kg	OU6-SO-3A35-202-0406-MAX	1/6	400 - 3800	74		1200000 nc		NO	BSL
86-74-8	Carbazole	53		200	J	µg/kg	OU6-SO-3A35-202-0608	2/2	0 - 0	200		24000 ca		NO	BSL
218-01-9	Chrysene	310	J	3000	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	3000		62000 ca		NO	BSL
53-70-3	Dibenzo(a,h)anthracene	260	J	260	J	µg/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	260		62 ca		YES	ASL
132-64-9	Dibenzofuran	65	J	65	J	µg/kg	OU6-SO-3A35-202-0608	1/6	370 - 3800	65		29000 nc		NO	BSL
206-44-0	Fluoranthene	440		5300		µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	5300		230000 nc		NO	BSL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration ⁽¹⁾	Minimum Qualifier	Maximum Concentration ⁽¹⁾	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value ⁽²⁾	Screening Toxicity Value ⁽³⁾	Soil Screening Level for Inhalation ⁽⁴⁾	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
86-73-7	Fluorene	51		210	J	µg/kg	OU6-SO-3A35-202-0608	2/6	400 - 3800	210		270000 nc		NO	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	150	J	1200	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	1200		620 ca		YES	ASL
91-20-3	Naphthalene	47		47		µg/kg	OU6-SO-3A35-202-0406-MAX	1/6	400 - 3800	47		5600 nc	170000	NO	BSL
85-01-8	Phenanthrene	180	J	2300	J	µg/kg	OU6-SO-3A35-202-0002	5/6	640 - 640	2300		2200000 nc		NO	BSL
129-00-0	Pyrene	460		4700		µg/kg	OU6-SO-3A35-202-0002	4/5	640 - 640	4700		230000 nc		NO	BSL
72-54-8	4,4'-DDD	3	J	35		µg/kg	OU6-SO-3A35-202-0204	2/6	3.8 - 70	35	4.6	2400 ca		NO	BSL
72-55-9	4,4'-DDE	4.9	J#	230	#	µg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	230	16.7	1700 ca		NO	BSL
50-29-3	4,4'-DDT	5.1		170	#	µg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	170	29.1	1700 ca*		NO	BSL
5103-71-9	alpha-Chlordane	2.3		12		µg/kg	OU6-SO-3A35-202-0608	4/6	3.3 - 36	12	4.88	1600 ca	72000	NO	BSL
AROCLORTOTC	Aroclor, Total (Conservative)	219		35800		µg/kg	OU6-SO-3A35-202-0810	5/7	29 - 40	35800		220 ca		YES	ASL
11096-82-5	Aroclor-1260	47		52		µg/kg	OU6-SO-3A35-202-0406-MAX	2/7	29 - 700	52	46.1	220 ca		NO	BSL
37324-23-5	Aroclor-1262	130		17000		µg/kg	OU6-SO-3A35-202-0810	4/7	29 - 40	17000	36.8	220 ca		YES	ASL
11100-14-4	Aroclor-1268	360		16000		µg/kg	OU6-SO-3A35-202-0810	3/7	29 - 40	16000	46.1	220 ca		YES	ASL
60-57-1	Dieldrin	4.1		40		µg/kg	OU6-SO-3A35-202-0204	2/6	3.8 - 70	40	13.1	30 ca	1000	YES	ASL
53494-70-5	Endrin Ketone	4.3		5.6		µg/kg	OU6-SO-3A35-202-0002	2/6	4 - 70	5.6	5.31	1800 nc		NO	BSL
5103-74-2	gamma-Chlordane	1.7	J	8.9		µg/kg	OU6-SO-3A35-202-0608	4/6	3.3 - 36	8.9	2.67	1600 ca	72000	NO	BSL
TE	Toxicity Equivalency	0.015	J	0.015	J	µg/kg	OU6-SO-3A35-202-0608	1/1	0 - 0	0.015		0.0039 ca		YES	ASL
7429-90-5	Aluminum	3660		11900		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	11900	12900			NO	EPA-I
7440-36-0	Antimony	4.2	J	4.2	J	mg/kg	OU6-SO-3A35-202-0810	1/6	0.55 - 0.97	4.2	2.86	3.1 nc		YES	ASL
7440-38-2	Arsenic	2.8		12.2		mg/kg	OU6-SO-3A35-202-0608	6/6	0 - 0	12.2	5.67	0.39 ca*	770	YES	ASL
7440-39-3	Barium	29.6		9930		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	9930	57.5	540 nc	710000	YES	ASL
7440-41-7	Beryllium	0.43		0.59		mg/kg	OU6-SO-3A35-202-1012	3/6	0.088 - 0.32	0.59	0.719	15 nc	1400	NO	BSL
7440-43-9	Cadmium	1		1		mg/kg	OU6-SO-3A35-202-0810	1/6	0.044 - 0.28	1	0.397	3.7 nc	1800	NO	BSL
7440-70-2	Calcium	1070	J	2390	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	2390	1600			NO	NUT
7440-47-3	Chromium	11.8		156	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	156	17	30 ca	280	YES	ASL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
7440-48-4	Cobalt	3.8		20.3		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	20.3	6.35			NO	EPA-I
7440-50-8	Copper	21.9	J	25000	J	mg/kg	OU6-SO-3A35-202-0810	10/10	0 - 0	25000	28.8			NO	EPA-I
7439-89-6	Iron	10400		34000		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	34000	16000			NO	EPA-I
7439-92-1	Lead	14.6		11700		mg/kg	OU6-SO-3A35-202-0810	10/10	0 - 0	11700	80.8	400 nc		YES	ASL
7439-95-4	Magnesium	2110		53100		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	53100	3250			NO	NUT
7439-96-5	Manganese	209		364	J	mg/kg	OU6-SO-3A35-202-0002	6/6	0 - 0	364	306	180 nc		YES	ASL
7439-97-6	Mercury	0.045	J	0.23	J	mg/kg	OU6-SO-3A35-202-0810	4/6	0.055 - 0.089	0.23	0.111	2.3 nc	10	NO	BSL
7440-02-0	Nickel	11.3		439		mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	439	12.5	160 nc	14000	YES	ASL
7440-09-7	Potassium	414		2600		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	2600	961			NO	NUT
7440-22-4	Silver	7		7		mg/kg	OU6-SO-3A35-202-0810	1/6	0.2 - 0.35	7	0.508	39 nc		NO	BSL
7440-23-5	Sodium	4330		4330		mg/kg	OU6-SO-3A35-202-1012	1/6	93.7 - 253	4330	76.4			NO	NUT
7440-62-2	Vanadium	17.8		43.3		mg/kg	OU6-SO-3A35-202-1012	6/6	0 - 0	43.3	34.2	55 nc		NO	BSL
7440-66-6	Zinc	42.9	J	7270	J	mg/kg	OU6-SO-3A35-202-0810	6/6	0 - 0	7270	112	2300 nc		YES	ASL
ASBESTOS	Asbestos	0.9		10		%	OU6-SO-3A35-201-0406, OU6-SO-3A35-202-0608	9/10	0.1 - 0.1	10		1		YES	ASL

TABLE 2.24
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
THIRD AVENUE PROPERTY
REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: THIRD AVENUE PROPERTY

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)	Soil Screening Level for Inhalation (4)	COPC Flag	Rationale for Contaminant Deletion or Selection (5)
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Notes:

(1) Minimum/maximum detected concentration.

Definitions: N/A = Not Applicable

(2) N/A - Refer to supporting information for background discussion.

SQL = Sample Quantitation Limit

Background values are the average of off-site background concentrations.

COPC = Chemical of Potential Concern

(3) Region IX PRG residential soil November 2002. Region IX PRGs for non-carcinogens have been adjusted by a factor of 0.1 to correspond to

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

an HI of 0.1

J = Estimated Value

(4) Soil Screening Guidance, 1996 and Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, 2001.

EB = present in equipment blank

(5) Rationale Codes Selection Reason:

* = From dilution analysis or estimated maximum possible concentration

Infrequent Detection but Associated Historically (HIST)

= Possible false positive due to interference

Frequent Detection (FD)

ca = Carcinogenic

Toxicity Information Available (TX)

ca* = where nc < 100X ca

Above Screening Levels (ASL)

nc = Non-Carcinogenic

Infrequent Detection (IFD)

sat = Region IX PRG for this non-carcinogen was based on saturation. The value

Background Levels (BKG)

shown is the lesser of the saturation or 1/10 of the original Region IX PRG.

No Toxicity Information (NTX)

max = Region IX PRG for this non-carcinogen was based on a ceiling limit. The value

Essential Nutrient (NUT)

shown is the lesser of the ceiling limit or 1/10 of the original Region IX PRG.

Below Screening Level (BSL)

EPA Region I does not advocate quantitative risk evaluation of this contaminant (EPA I) given lack of approved toxicity criteria

TABLE 3.1A
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lockwood Avenue Property

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1400	6.40E+03	5800	*	µg/kg	5800	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	4.40E+03	5200		µg/kg	4400	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1700	9.60E+03	5000		µg/kg	5000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	390	1.10E+03	680		µg/kg	680	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	710	2.20E+03	4500		µg/kg	2200	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1254, 1262, 1268)	µg/kg	7800	5.60E+04	96550		µg/kg	56000	95% UCL-T	W-Test(1)
Dieldrin	µg/kg	190	4.50E+02	2600	J	µg/kg	450	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.12	1.70E+00	0.350845	J	µg/kg	0.35	Max	W-Test(2)
Antimony	mg/kg	17.3	1.14E+02	51.4		mg/kg	51.4	Max	W-Test(2)
Arsenic	mg/kg	12	3.34E+01	56		mg/kg	33.4	95% UCL-T	W-Test(1)
Cadmium	mg/kg	11.9	3.26E+01	149		mg/kg	32.6	95% UCL-T	W-Test(1)
Chromium	mg/kg	410	2.01E+03	3270	J	mg/kg	2010	95% UCL-T	W-Test(1)
Lead	mg/kg	785	1.49E+03	10600	J	mg/kg	1490	95% UCL-T	W-Test(1)
Thallium	mg/kg	2	4.00E+00	8.4		mg/kg	4	95% UCL-T	W-Test(1)
Asbestos	%	7	4.30E+01	50		%	43	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.1B
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY (RECREATIONAL USE)
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lockwood Avenue Property

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1400	6400	5800	*	ug/kg	5800	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	4400	5200		ug/kg	4400	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1700	9600	5000		ug/kg	5000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	390	1100	680		ug/kg	680	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	710	2200	4500		ug/kg	2200	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1254, 1262, 1268)	µg/kg	7800	56000	96550		ug/kg	56000	95% UCL-T	W-Test(1)
Dieldrin	µg/kg	190	450	2600	J	ug/kg	450	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.12	1.7	0.350845	J	ug/kg	0.35	Max	W-Test(2)
Antimony	mg/kg	17.3	114	51.4		mg/kg	51.4	Max	W-Test(2)
Arsenic	mg/kg	12	33.4	56		mg/kg	33.4	95% UCL-T	W-Test(1)
Barium	mg/kg	943	12900	3770	J	mg/kg	3770	Max	W-Test(2)
Cadmium	mg/kg	11.9	32.6	149		mg/kg	32.6	95% UCL-T	W-Test(1)
Chromium	mg/kg	410	2010	3270	J	mg/kg	2010	95% UCL-T	W-Test(1)
Lead	mg/kg	785	1490	10600	J	mg/kg	1490	95% UCL-T	W-Test(1)
Manganese	mg/kg	300	396	722	J	mg/kg	396	95% UCL-T	W-Test(1)
Nickel	mg/kg	72	157	457	J	mg/kg	157	95% UCL-T	W-Test(1)
Thallium	mg/kg	2	4	8.4		mg/kg	4	95% UCL-T	W-Test(1)
Vanadium	mg/kg	57.5	87	224		mg/kg	87	95% UCL-T	W-Test(1)
Zinc	mg/kg	674	1950	5930		mg/kg	1950	95% UCL-T	W-Test(1)
Asbestos	%	7	43	50		%	43	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
200 FERRY BOULEVARD
DRAFT FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 200 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead Asbestos	mg/kg %	213 10	9.62E+02 3.30E+01	817 25		mg/kg %	817 25	Max Max	W-Test(2) W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK 0U6 - 230 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 230 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	880	1.30E+03	1600		µg/kg	1300	95% UCL-N	W-Test(3)
Benzo(a)anthracene	µg/kg	1800	9.90E+03	9100	*	µg/kg	9100	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1800	1.00E+04	9100	*	µg/kg	9100	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	1500	6.00E+03	6200	*J	µg/kg	6000	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	510	9.50E+02	2300		µg/kg	950	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	980	4.00E+03	4600		µg/kg	4000	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1248, 1262, 1268)	µg/kg	57000	4.80E+06	278000		µg/kg	280000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	4.9	1.45E+09	20.14	J	µg/kg	20.1	Max	W-Test(2)
Arsenic	mg/kg	6	7.20E+00	8.8		mg/kg	7.2	95% UCL-N	W-Test(3)
Barium	mg/kg	5010	5.22E+05	16700		mg/kg	16700	Max	W-Test(2)
Chromium	mg/kg	120	1.72E+02	301		mg/kg	172	95% UCL-N	W-Test(3)
Lead	mg/kg	6620	9.71E+04	40100		mg/kg	40100	Max	W-Test(2)
Asbestos	%	22	3.80E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.4
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 250 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 250 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	1800	3.20E+05	9400	*	µg/kg	9400	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	2600	1.00E+04	13000		µg/kg	10000	95% UCL-T	W-Test(1)
Benzo(a)pyrene	µg/kg	3200	1.30E+04	12000		µg/kg	12000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2500	7.80E+03	11000		µg/kg	7800	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	2100	8.90E+03	370	J	µg/kg	370	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	2300	6.80E+03	5700		µg/kg	5700	Max	W-Test(2)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	24000	1.20E+06	180340		µg/kg	180000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.67	2.03E+02	2.6	J	µg/kg	2.6	Max	W-Test(2)
Arsenic	mg/kg	8.4	1.12E+01	18.5		mg/kg	11.2	95% UCL-T	W-Test(1)
Barium	mg/kg	3950	5.94E+04	14500		mg/kg	14500	Max	W-Test(2)
Chromium	mg/kg	53.1	8.61E+01	141		mg/kg	86.1	95% UCL-T	W-Test(1)
Lead	mg/kg	3700	1.30E+04	25400		mg/kg	13000	95% UCL-T	W-Test(1)
Asbestos	%	25	1.30E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);

Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 280 Ferry Blvd

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Trichloroethene	µg/kg	76	2.80E+03	330	J	µg/kg	330	Max	W-Test(2)
Acetophenone	µg/kg	2400	2.80E+04	7000	J	µg/kg	7000	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	6300	4.90E+04	20000		µg/kg	20000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	5300	3.10E+04	17000		µg/kg	17000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	5200	3.00E+04	18000		µg/kg	18000	Max	W-Test(2)
Dibenz(a,h)anthracene	µg/kg	2300	1.60E+04	3900	J	µg/kg	3900	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	3800	2.40E+04	10000	J	µg/kg	10000	Max	W-Test(2)
Aroclor, Total (Conservative) (1242,1248,1254,1262,1268)	µg/kg	83000	1.10E+05	170450		µg/kg	110000	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	2.8	4.00E+00	7.4	J	µg/kg	4	95% UCL-N	W-Test(3)
Arsenic	mg/kg	5.9	7.80E+00	9.7		mg/kg	7.8	95% UCL-T	W-Test(1)
Barium	mg/kg	7410	9.29E+03	13600		mg/kg	9290	95% UCL-N	W-Test(3)
Chromium	mg/kg	111	1.36E+02	180		mg/kg	136	95% UCL-N	W-Test(3)
Lead	mg/kg	8670	4.74E+04	41700	J	mg/kg	41700	Max	W-Test(2)
Asbestos	%	32	1.90E+02	90		%	90	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.6
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 300 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 300 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	200	NA	180	J	µg/kg	180	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	430	5.40E+02	580		µg/kg	540	95% UCL-N	W-Test(3)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	62000	3.20E+06	290000		µg/kg	290000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.33	6.00E-01	0.61	J	µg/kg	0.6	95% UCL-N	W-Test(3)
Arsenic	mg/kg	6.2	7.60E+00	10		mg/kg	7.6	95% UCL-T	W-Test(1)
Cadmium	mg/kg	7.1	1.77E+03	47.3		mg/kg	47.3	Max	W-Test(2)
Chromium	mg/kg	69.1	8.68E+01	92.4	J	mg/kg	86.8	95% UCL-N	W-Test(3)
Lead	mg/kg	5480	5.74E+04	46000		mg/kg	46000	Max	W-Test(2)
Asbestos	%	28	5.00E+02	75		%	75	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.7
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Lot Behind 326 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	340	8.80E+02	730	J	µg/kg	730	Max	W-Test(2)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	39000	1.20E+08	218510		µg/kg	220000	Max	W-Test(2)
Dieldrin	µg/kg	29	7.90E+03	120	#	µg/kg	120	Max	W-Test(2)
Toxicity Equivalency	µg/kg	2.5	NA	2.48		µg/kg	2.5	Max	W-Test(4)
Arsenic	mg/kg	6.2	8.60E+00	9.3		mg/kg	8.6	95% UCL-N	W-Test(3)
Barium	mg/kg	2930	1.31E+08	10500		mg/kg	10500	Max	W-Test(2)
Chromium	mg/kg	41.4	1.97E+02	105		mg/kg	105	Max	W-Test(2)
Lead	mg/kg	1930	9.13E+03	12900		mg/kg	9130	95% UCL-T	W-Test(1)
Asbestos	%	13	1.90E+02	60		%	60	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.8
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Vacant Lot at Housatonic Avenue

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	2300	3.90E+05	6700		µg/kg	6700	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	2000	2.10E+04	5700		µg/kg	5700	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2200	2.40E+04	6200		µg/kg	6200	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	520	9.80E+02	1000		µg/kg	980	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	1100	5.70E+03	3000		µg/kg	3000	Max	W-Test(2)
4,4'-DDT	µg/kg	950	1.40E+12	4600	J	µg/kg	4600	Max	W-Test(2)
Aroclor, Total (Conservative) (1248,1254,1262,1268)	µg/kg	43000	6.40E+04	89400		µg/kg	64000	95% UCL-N	W-Test(3)
Endrin Ketone	µg/kg	240	1.90E+03	2000		µg/kg	1900	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	2.3	2.98E+03	10.539		µg/kg	10.5	Max	W-Test(2)
Antimony	mg/kg	6.4	1.15E+01	6.5		mg/kg	6.5	Max	W-Test(2)
Arsenic	mg/kg	5.9	7.50E+00	9.7	J	mg/kg	7.5	95% UCL-N	W-Test(3)
Barium	mg/kg	8280	1.29E+04	21000		mg/kg	12900	95% UCL-N	W-Test(3)
Chromium	mg/kg	103	1.48E+02	227		mg/kg	148	95% UCL-N	W-Test(3)
Lead	mg/kg	8590	2.28E+05	35400		mg/kg	35400	Max	W-Test(2)
Manganese	mg/kg	280	4.38E+02	592	J	mg/kg	438	95% UCL-T	W-Test(1)
Nickel	mg/kg	239	3.09E+03	580		mg/kg	580	Max	W-Test(2)
Vanadium	mg/kg	32.8	8.22E+01	77	J	mg/kg	77	Max	W-Test(2)
Zinc	mg/kg	1170	1.63E+04	4730		mg/kg	4730	Max	W-Test(2)
Asbestos	%	26	1.90E+02	80		%	80	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.9
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 326 FERRY BOULEVARD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 326 Ferry Boulevard

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	960	5.40E+03	2600	J	µg/kg	2600	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	4.40E+03	2600	J	µg/kg	2600	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	610	8.20E+03	290	J	µg/kg	290	Max	W-Test(2)
Aroclor, Total (Conservative) (1260, 1268)	µg/kg	1700	2.70E+04	3971		µg/kg	4000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.031	NA	0.031		µg/kg	0.031	Max	W-Test(2)
Arsenic	mg/kg	4.7	9.80E+00	9.6		mg/kg	9.6	Max	W-Test(2)
Asbestos	%	3	1.10E+01	8		%	8	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.10
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 576 East Broadway

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	790	4.50E+03	3200	J	µg/kg	3200	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	740	4.50E+03	2000	J	µg/kg	2000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	880	6.40E+03	2900	J	µg/kg	2900	Max	W-Test(2)
Aroclor, Total (Conservative) (1254,1262,1268)	µg/kg	71000	2.10E+06	413300	*	µg/kg	410000	Max	W-Test(2)
Dieldrin	µg/kg	230	9.80E+02	3000	*	µg/kg	980	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	2.7	4.41E+02	16.794	J	µg/kg	16.8	Max	W-Test(2)
Arsenic	mg/kg	8.1	1.97E+01	21.9		mg/kg	19.7	95% UCL-T	W-Test(1)
Barium	mg/kg	4680	9.26E+04	17000		mg/kg	17000	Max	W-Test(2)
Chromium	mg/kg	157	5.96E+02	906		mg/kg	596	95% UCL-T	W-Test(1)
Lead	mg/kg	3790	4.22E+04	24700		mg/kg	24700	Max	W-Test(2)
Thallium	mg/kg	1.7	3.30E+00	13.2	J	mg/kg	3.3	95% UCL-T	W-Test(1)
Asbestos	%	23	8.40E+01	90		%	84	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
 W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.11
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 600 East Broadway

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Trichloroethene	µg/kg	31	1.40E+02	120		µg/kg	120	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	1200	4.80E+03	3600		µg/kg	3600	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	3.70E+03	2500	J	µg/kg	2500	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	1300	5.90E+03	5000		µg/kg	5000	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	960	3.90E+03	2200	J	µg/kg	2200	Max	W-Test(2)
Aroclor, Total (Conservative) (1254,1262,1268)	µg/kg	13000	8.60E+04	97525		µg/kg	86000	95% UCL-T	W-Test(1)
Toxicity Equivalency	µg/kg	0.3	4.50E-01	1.03	J	µg/kg	0.45	95% UCL-N	W-Test(3)
Arsenic	mg/kg	34.1	6.19E+01	263	J	mg/kg	61.9	95% UCL-T	W-Test(1)
Barium	mg/kg	4330	3.58E+04	10900		mg/kg	10900	Max	W-Test(2)
Chromium	mg/kg	106	2.21E+02	240		mg/kg	221	95% UCL-T	W-Test(1)
Lead	mg/kg	2320	1.29E+04	25600	J	mg/kg	12900	95% UCL-T	W-Test(1)
Zinc	mg/kg	2600	1.29E+04	24000	J	mg/kg	12900	95% UCL-T	W-Test(1)
Asbestos	%	19	1.50E+02	85		%	85	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.12
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Vacant DOT Lot Abutting I-95

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	680	3800	2300	J	ug/kg	2300	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	950	7200	3300		ug/kg	3300	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	510	1000	400	J	ug/kg	400	Max	W-Test(2)
Aroclor, Total (Conservative) (1268)	µg/kg	3600	99000	22600		ug/kg	23000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.029	2.3	0.0869		ug/kg	0.087	Max	W-Test(2)
Arsenic	mg/kg	5.1	12	18.7		mg/kg	12	95% UCL-T	W-Test(1)
Chromium	mg/kg	35.3	53.6	68.5		mg/kg	53.6	95% UCL-T	W-Test(1)
Lead	mg/kg	991	3680	7360		mg/kg	3680	95% UCL-T	W-Test(1)
Asbestos	%	6	49	40		%	40	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.13A
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - CT RIGHT-OF-WAY
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: CT Right-of-Way

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1300	2400	3200		ug/kg	2400	95% UCL-T	W-Test(1)
Benzo(a)pyrene	µg/kg	1200	1900	2700		ug/kg	1900	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	1500	2600	6000	J	ug/kg	2600	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	310	530	280		ug/kg	280	Max	W-Test(2)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	3700	4900	7580		ug/kg	4900	95% UCL-N	W-Test(3)
Arsenic	mg/kg	12.9	27.5	80.3		mg/kg	27.5	95% UCL-T	W-Test(1)
Chromium	mg/kg	41.6	92.3	287		mg/kg	92.3	95% UCL-T	W-Test(1)
Lead	mg/kg	401	1210	1810	J	mg/kg	1210	95% UCL-T	W-Test(1)
Asbestos	%	3	19	15.9	*	%	16	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.13B
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: CT Right-of-Way - Residential Portion

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	1200	2400	2200		ug/kg	2200	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1100	1800	1800		ug/kg	1800	95% UCL-T	W-Test(1)
Benzo(b)fluoranthene	µg/kg	820	1200	1400		ug/kg	1200	95% UCL-T	W-Test(1)
Dibenzo(a,h)anthracene	µg/kg	180	270	280		ug/kg	270	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	450	660	740		ug/kg	660	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	3800	5200	5848.5		ug/kg	5200	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	0.026	NA	0.026		ug/kg	0.026	Max	W-Test(4)
Arsenic	mg/kg	4.4	5.5	6.3		mg/kg	5.5	95% UCL-N	W-Test(3)
Barium	mg/kg	456	768	912	J	mg/kg	768	95% UCL-T	W-Test(1)
Lead	mg/kg	494	662	982	J	mg/kg	662	95% UCL-N	W-Test(3)
Manganese	mg/kg	137	176	218	J	mg/kg	176	95% UCL-T	W-Test(1)
Asbestos	%	4	9	15.9	*	%	9	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.
 W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.14
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 304 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 304 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	230	NA	300	J	µg/kg	300	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	210	2.80E+02	300	J	µg/kg	280	95% UCL-T	W-Test(1)
Aroclor, Total (Conservative) (1262, 1268)	µg/kg	130000	4.70E+12	510850		µg/kg	510000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.47	NA	0.474		µg/kg	0.47	Max	W-Test(4)
Arsenic	mg/kg	11.7	1.61E+01	21.9		mg/kg	16.1	95% UCL-N	W-Test(3)
Barium	mg/kg	2420	2.29E+05	8110		mg/kg	8110	Max	W-Test(2)
Chromium	mg/kg	26.5	9.23E+01	76.5		mg/kg	76.5	Max	W-Test(2)
Lead	mg/kg	5910	8.49E+04	43400		mg/kg	43400	Max	W-Test(2)
Zinc	mg/kg	4210	1.69E+06	18400		mg/kg	18400	Max	W-Test(2)
Asbestos	mg/kg	%	16	4.60E+02	50	%	50	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.15
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 340 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 340 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Aroclor, Total (Conservative) (1262,1268) Lead Asbestos	µg/kg mg/kg %	1200 4140 14	NA 2.77E+04 1.40E+02	1167 27000 70		µg/kg mg/kg %	1200 27000 70	Max Max Max	W-Test(2) W-Test(2) W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.16
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
380 EAST MAIN STREET
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 380 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead Asbestos	mg/kg %	1500 2	NA NA	1500 2		mg/kg %	1500 2	Max Max	W-Test(4) W-Test(4)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

(4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.17
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - 250 EAST MAIN STREET
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 250 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene	µg/kg	380	3.60E+04	1300	J	µg/kg	1300	Max	W-Test(2)
Aroclor, Total (Conservative) (1268)	µg/kg	1300	1.10E+04	4158.5		µg/kg	4200	Max	W-Test(2)
Arsenic	mg/kg	6.5	1.00E+01	10		mg/kg	10	Max	W-Test(2)
Chromium	mg/kg	83.4	7.59E+03	337		mg/kg	337	Max	W-Test(2)
Lead	mg/kg	2730	2.41E+05	10900		mg/kg	10900	Max	W-Test(2)
Asbestos	mg/kg %	14	8.10E+03	80		%	80	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.18
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
DPW LOT
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: DPW Lot

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Lead Asbestos	mg/kg %	398 5	1.56E+03 6.00E+02	2160 30		mg/kg %	1560 30	95% UCL-T Max	W-Test(1) W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.19
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
251 EAST MAIN STREET
FINAL REMEDIAL INVESTIGATION
RAYMARK OU6
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: 251 East Main Street

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Asbestos	%	2	7.5E+13	6.7		%	7	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T); Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.20
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - BEACON POINT AREA
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Beacon Point Area

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	2600	2.40E+04	11000	*J	µg/kg	11000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	2200	2.20E+04	9000	*J	µg/kg	9000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	2400	2.10E+04	12000	*J	µg/kg	12000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	550	1.60E+03	1800	J	µg/kg	1600	95% UCL-T	W-Test(1)
Indeno(1,2,3-cd)pyrene	µg/kg	1600	9.60E+03	7700	*J	µg/kg	7700	Max	W-Test(2)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	9500	4.00E+07	68750		µg/kg	69000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	2.6	NA	7.81	J	µg/kg	7.8	Max	W-Test(4)
Arsenic	mg/kg	9.6	2.28E+01	35.5		mg/kg	22.8	95% UCL-T	W-Test(1)
Barium	mg/kg	2050	3.67E+04	19700		mg/kg	19700	Max	W-Test(2)
Cadmium	mg/kg	2.7	1.01E+01	10.2	J	mg/kg	10.1	95% UCL-T	W-Test(1)
Chromium	mg/kg	52.3	8.07E+01	199		mg/kg	80.7	95% UCL-T	W-Test(1)
Lead	mg/kg	3080	7.99E+03	49000		mg/kg	7990	95% UCL-T	W-Test(1)
Manganese	mg/kg	389	5.24E+02	938		mg/kg	524	95% UCL-T	W-Test(1)
Nickel	mg/kg	79.4	1.65E+02	547		mg/kg	165	95% UCL-T	W-Test(1)
Zinc	mg/kg	653	2.78E+03	3830		mg/kg	2780	95% UCL-T	W-Test(1)
Asbestos	%	4	2.30E+01	40		%	23	95% UCL-T	W-Test(1)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.21
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - ONE BEACON POINT ROAD
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: One Beacon Point Road

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	6900	4.40E+05	15000	*J	µg/kg	15000	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	5700	6.50E+05	14000	J	µg/kg	14000	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	5700	3.90E+05	12000	*J	µg/kg	12000	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	1500	7.70E+05	3500	J	µg/kg	3500	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	3400	1.20E+06	9100	J	µg/kg	9100	Max	W-Test(2)
Aroclor, Total (Conservative) (1254, 1262, 1268)	µg/kg	8000	3.10E+05	23810		µg/kg	24000	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.77	NA	0.769		µg/kg	0.77	Max	W-Test(4)
Arsenic	mg/kg	3	4.30E+00	3.9		mg/kg	3.9	Max	W-Test(2)
Chromium	mg/kg	1200	7.62E+16	4270		mg/kg	4270	Max	W-Test(2)
Lead	mg/kg	2210	2.32E+04	14800		mg/kg	14800	Max	W-Test(2)
Manganese	mg/kg	2170	1.61E+10	7220	J	mg/kg	7220	Max	W-Test(2)
Asbestos	%	11	7.40E+02	60		%	60	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

(1) Shapiro-Wilk W-Test indicates data are lognormally distributed.

(2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.

(3) Shapiro-Wilk W-Test indicates data are normally distributed.

TABLE 3.22
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN
STRATFORD, CONNECTICUT

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Airport Property North of Marine Basin

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)anthracene	µg/kg	16000	NA	43000		µg/kg	43000	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	14000	NA	36000		µg/kg	36000	Max	W-Test(4)
Benzo(b)fluoranthene	µg/kg	12000	NA	31000		µg/kg	31000	Max	W-Test(4)
Benzo(k)fluoranthene	µg/kg	14000	NA	37000		µg/kg	37000	Max	W-Test(4)
Dibenzo(a,h)anthracene	µg/kg	4500	NA	12000		µg/kg	12000	Max	W-Test(4)
Indeno(1,2,3-cd)pyrene	µg/kg	9800	NA	26000		µg/kg	26000	Max	W-Test(4)
Arsenic	mg/kg	3.7	NA	5.2		mg/kg	5.2	Max	W-Test(2)
Lead	mg/kg	989	8.13E+03	9340		mg/kg	8130	95% UCL-T	W-Test(1)
Asbestos	%	5	4.00E+01	40		%	40	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.23
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - WOOSTER PARK
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil (Surface and Subsurface)
Exposure Point: Wooster Park

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	1500	NA	750	J	µg/kg	750	Max	W-Test(4)
Acenaphthylene	µg/kg	6000	NA	6500		µg/kg	6500	Max	W-Test(4)
Benzo(a)anthracene	µg/kg	21000	NA	24000		µg/kg	24000	Max	W-Test(4)
Benzo(a)pyrene	µg/kg	16000	NA	19000		µg/kg	19000	Max	W-Test(4)
Benzo(b)fluoranthene	µg/kg	15000	NA	18000		µg/kg	18000	Max	W-Test(4)
Benzo(k)fluoranthene	µg/kg	15000	NA	16000		µg/kg	16000	Max	W-Test(4)
Dibenz(a,h)anthracene	µg/kg	2800	NA	3800		µg/kg	3800	Max	W-Test(4)
Indeno(1,2,3-cd)pyrene	µg/kg	7900	NA	9400		µg/kg	9400	Max	W-Test(4)
Aroclor, Total (Conservative) (1262,1268)	µg/kg	21000	4.20E+04	44575	J	µg/kg	42000	95% UCL-N	W-Test(3)
Toxicity Equivalency	µg/kg	2	NA	2		µg/kg	2	Max	W-Test(4)
Arsenic	mg/kg	4.5	5.60E+00	5.6		mg/kg	5.6	Max	W-Test(2)
Barium	mg/kg	5860	1.31E+04	14300		mg/kg	13100	95% UCL-N	W-Test(3)
Chromium	mg/kg	38.8	1.06E+03	75.4		mg/kg	75.4	Max	W-Test(2)
Lead	mg/kg	4250	1.94E+08	17300		mg/kg	17300	Max	W-Test(2)
Manganese	mg/kg	235	3.98E+02	321		mg/kg	321	Max	W-Test(2)
Nickel	mg/kg	101	7.77E+06	238		mg/kg	238	Max	W-Test(2)
Asbestos	%	14	1.20E+06	60		%	60	Max	

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 3.24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
RAYMARK OU6 - THIRD AVENUE PROPERTY

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Acetophenone	µg/kg	480	1.10E+04	310	J	µg/kg	310	Max	W-Test(2)
Benzo(a)anthracene	µg/kg	1100	5.90E+03	2700	J	µg/kg	2700	Max	W-Test(2)
Benzo(a)pyrene	µg/kg	1000	5.00E+03	2800	J	µg/kg	2800	Max	W-Test(2)
Benzo(b)fluoranthene	µg/kg	920	4.10E+03	2500	J	µg/kg	2500	Max	W-Test(2)
Dibenzo(a,h)anthracene	µg/kg	560	2.40E+03	260	J	µg/kg	260	Max	W-Test(2)
Indeno(1,2,3-cd)pyrene	µg/kg	480	1.40E+03	1200	J	µg/kg	1200	Max	W-Test(2)
Aroclor, Total (Conservative) Aroclors 1262, 1268	µg/kg	5700	4.10E+08	35800		µg/kg	36000	Max	W-Test(2)
Dieldrin	µg/kg	14	5.80E+02	40		µg/kg	40	Max	W-Test(2)
Toxicity Equivalency	µg/kg	0.015	NA	0.015	J	µg/kg	0.015	Max	W-Test(4)
Antimony	mg/kg	0.99	7.70E+00	4.2	J	mg/kg	4.2	Max	W-Test(2)
Arsenic	mg/kg	8.4	1.18E+01	12.2		mg/kg	11.8	95% UCL-N	W-Test(3)
Barium	mg/kg	2030	1.03E+08	9930		mg/kg	9930	Max	W-Test(2)
Chromium	mg/kg	50.7	3.44E+02	156	J	mg/kg	156	Max	W-Test(2)
Lead	mg/kg	1650	1.09E+05	11700		mg/kg	11700	Max	W-Test(2)
Manganese	mg/kg	257	3.13E+02	364	J	mg/kg	313	95% UCL-T	W-Test(1)
Nickel	mg/kg	106	6.07E+03	439		mg/kg	439	Max	W-Test(2)
Zinc	mg/kg	1400	1.96E+06	7270	J	mg/kg	7270	Max	W-Test(2)
Asbestos	%	4	6.30E+01	10		%	10	Max	W-Test(2)

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration; for duplicate sample results, the average value was used in the calculation.

W-Test: Developed by Shapiro and Wilk, refer to Supplemental Guidance to RAGS: Calculating the Concentration Term, OSWER Directive 9285.7-081, May 1992.

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-T);
 Mean of Log-transformed Data (Mean-T); Mean of Normal Data (Mean-N).

- (1) Shapiro-Wilk W-Test indicates data are lognormally distributed.
- (2) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for RME EPC.
- (3) Shapiro-Wilk W-Test indicates data are normally distributed.
- (4) < 3 sample results. Therefore, maximum concentration used for RME EPC.

TABLE 4.1
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Commercial Worker Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Commercial Properties areas of Raymark Waste
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS FRW IR-S OABS EF ED CF1 BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Ingestion Rate of Soil Oral Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless mg/day dimensionless days/year years kg/mg kg days days	See Table 3 See Table 1-1 100 See Table 5.1 250 25 1E-06 70 25,550 9,125	See Table 3 See Table 1-1 EPA, 1991 See Table 5.1 (1) EPA, 1997 -- EPA, 1997 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = (CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
Dermal Absorption	CS FRW CF1 SA SSAF DABS EF ED BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Conversion Factor Skin Surface Area Available for Contact Soil to Skin Adherence Factor Dermal Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless kg/mg cm ² /day mg/cm ² dimensionless days/year years kg days days	See Table 3 See Table 1-1 1E-06 3,300 0.2 See Table 5.1 250 25 70 25,550 9,125	See Table 3 See Table 1-1 -- EPA, 2001 EPA, 2001 See Table 5.1 (1) EPA, 1997 EPA, 1997 EPA, 1989 EPA, 1989	CDI (mg/kg-day) = (CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/(BW x AT)

(1) Professional Judgement.

EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.

EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.

EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.2A
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Residential Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Residential Properties areas of Raymark Waste
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	CS FRW IR-S OABS EF ED CF1 BW AT-C AT-N	Chemical Concentration in Soil Fraction of Site with Raymark Waste Ingestion Rate of Soil Oral Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless mg/day dimensionless days/year years kg/mg kg days days	See Table 3 See Table 1-1 100 See Table 5.1 350 24 1E-06 70 25,550 8,760	See Table 3 See Table 1-1 EPA, 1991 See Table 5.1 EPA, 1994 EPA, 1997 -- EPA, 1997 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = (CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
Dermal Absorption	CS FRW CF1 SA SSAF DABS EF ED BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Conversion Factor Skin Surface Area Available for Contact Soil to Skin Adherence Factor Dermal Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless kg/mg cm ² /day mg/cm ² dimensionless days/year years kg days days	See Table 3 See Table 1-1 1E-06 5,700 0.07 See Table 5.1 350 24 70 25,550 8,760	See Table 3 See Table 1-1 -- EPA, 2001 EPA, 2001 See Table 5.1 EPA, 1994 EPA, 1997 EPA, 1997 EPA, 1989 EPA, 1989	CDI (mg/kg-day) = (CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/(BW x AT)

(1) Professional Judgement.

EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.

EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.

EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.

EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.2B
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Child Residential Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Residential Properties areas of Raymark Waste
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS FRW IR-S OABS EF ED CF1 BW AT-C AT-N	Chemical Concentration in Soil Fraction of Site with Raymark Waste Ingestion Rate of Soil Oral Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless mg/day dimensionless days/year years kg/mg kg days days	See Table 3 See Table 1-1 200 See Table 5.1 350 6 1E-06 15 25,550 2,190	See Table 3 See Table 1-1 EPA, 1997 See Table 5.1 EPA, 1994 EPA, 1997 -- EPA, 1997 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = (CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
Dermal Absorption	CS FRW CF1 SA SSAF DABS EF ED BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Conversion Factor Skin Surface Area Available for Contact Soil to Skin Adherence Factor Dermal Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless kg/mg cm ² /day mg/cm ² dimensionless days/year years kg days days	See Table 3 See Table 1-1 1E-06 2,800 0.2 See Table 5.1 350 6 15 25,550 2,190	See Table 3 See Table 1-1 -- EPA, 2001 EPA, 2001 See Table 5.1 EPA, 1994 EPA, 1997 EPA, 1997 EPA, 1989 EPA, 1989	CDI (mg/kg-day) = (CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/(BW x AT)

(1) Professional Judgement.

EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.

EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.

EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.3A
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Adult Recreational Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Recreational Properties areas of Raymark Waste
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS FRW IR-S OABS EF ED CF1 BW AT-C AT-N	Chemical Concentration in Soil Fraction of Site with Raymark Waste Ingestion Rate of Soil Oral Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless mg/day dimensionless days/year years kg/mg kg days days	See Table 3 See Table 1-1 100 See Table 5.1 150 24 1E-06 70 25,550 8,760	See Table 3 See Table 1-1 EPA, 1991 See Table 5.1 EPA, 1994 EPA, 1997 -- EPA, 1997 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = (CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
Dermal Absorption	CS FRW CF1 SA SSAF DABS EF ED BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Conversion Factor Skin Surface Area Available for Contact Soil to Skin Adherence Factor Dermal Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless kg/mg cm ² /day mg/cm ² dimensionless days/year years kg days days	See Table 3 See Table 1-1 1E-06 5,700 0.07 See Table 5.1 150 24 70 25,550 8,760	See Table 3 See Table 1-1 -- EPA, 2001 EPA, 2001 See Table 5.1 EPA, 1994 EPA, 1997 EPA, 1997 EPA, 1989 EPA, 1989	CDI (mg/kg-day) = (CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/(BW x AT)

(1) Professional Judgement.

EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA, 1991: Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual - Supplemental Guidance - "Standard Default Exposure Factors" - Interim Final. OSWER Directive 9285.6-03. Office of Emergency and Remedial Response. March 25.

EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.

EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.

EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 4.3B
VALUES USED FOR DAILY INTAKE CALCULATIONS
RAYMARK-OU#6
Child Recreational Exposures to Raymark Waste Soil

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: OU6 Recreational Properties areas of Raymark Waste
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	CS FRW IR-S OABS EF ED CF1 BW AT-C AT-N	Chemical Concentration in Soil Fraction of Site with Raymark Waste Ingestion Rate of Soil Oral Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Conversion Factor Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless mg/day dimensionless days/year years kg/mg kg days days	See Table 3 See Table 1-1 200 See Table 5.1 150 6 1E-06 15 25,550 2,190	See Table 3 See Table 1-1 EPA, 1997 See Table 5.1 EPA, 1994 EPA, 1997 -- EPA, 1997 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = (CS x FRW x IR-S x OABS x EF x ED x CF1)/(BW x AT)
Dermal Absorption	CS FRW CF1 SA SSAF DABS EF ED BW AT-C AT-N	Chemical Concentration in Subsurface Soil Fraction of Site with Raymark Waste Conversion Factor Skin Surface Area Available for Contact Soil to Skin Adherence Factor Dermal Absorption Factor (chemical-specific) Exposure Frequency Exposure Duration Body Weight Averaging Time (Cancer) Averaging Time (Non-Cancer)	mg/kg dimensionless kg/mg cm ² /day mg/cm ² dimensionless days/year years kg days days	See Table 3 See Table 1-1 1E-06 2,800 0.2 See Table 5.1 150 6 15 25,550 2,190	See Table 3 See Table 1-1 -- EPA, 2001 EPA, 2001 See Table 5.1 EPA, 1994 EPA, 1997 EPA, 1997 EPA, 1989 EPA, 1989	CDI (mg/kg-day) = (CS x FRW x CF1 x SA x SSAF x DABS x EF x ED)/ (BW x AT)

(1) Professional Judgement.

EPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A. OERR. EPA/540/1-89/002.

EPA, 1994: USEPA Region I Waste Management Division, USEPA Risk Update No. 2, Aug. 1994.

EPA, 1997: Exposure Factors Handbook. Volume I, Aug. 1997, EPA/600/P-25/002FA.

EPA, 2001: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim . December 2001.

TABLE 5.1
NON-CANCER CHRONIC TOXICITY DATA -- ORAL/DERMAL
RAYMARK OU6, STRATFORD, CONNECTICUT

Chemical of Potential Concern	Chronic/Subchronic	Oral RfD Value (1)	Oral RfD Units	GI Absorption in Toxicity Study	Adjusted Dermal RfD (2)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ (MM/DD/YY)	Dermal Absorption Factor for Soils (DABS)	Oral Absorption Factor for Soils (OABS)
Trichloroethene	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	mg/kg-day	Liver/Kidney General	3000	EPA-NCEA IRIS	9/14/2003 9/14/2003	NA 0.1	1 1.0
Acetophenone	Chronic	1.00E-01	mg/kg-day	1.0E+00	1.00E-01	mg/kg-day			EPA-NCEA		0.13	1.0
Acenaphthylene	Chronic	6.00E-02	mg/kg-day	1.0E+00	6.00E-02	mg/kg-day						
Benzo(a)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(a)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Dibenzo(a,h)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.13	1.0
4,4'-DDT	Chronic	5.00E-04	mg/kg-day	1.0E+00	5.00E-04	N/A	Liver	100	IRIS	9/14/2003	0.03	1.0
Aroclor, Total (Conservative)	Chronic	2.00E-05	mg/kg-day	1.0E+00	2.00E-05	N/A	Skin/Eyes/Immune	300	IRIS	9/14/2003	0.14	1.0
Dieldrin	Chronic	5.00E-05	mg/kg-day	1.0E+00	5.00E-05	N/A	Liver	100	IRIS	9/14/2003	NA	1.0
Endrin Ketone	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	N/A	Liver, CNS	100	IRIS	9/14/2003	NA	1.0
Dioxin TEQ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.03	0.5
Antimony	Chronic	4.00E-04	mg/kg-day	1.5E-01	6.00E-05	N/A	Blood	1000	IRIS	9/14/2003	NA	1.0
Arsenic	Chronic	3.00E-04	mg/kg-day	1.0E+00	3.00E-04	N/A	Skin	3	IRIS	9/14/2003	0.03	1.0
Barium	Chronic	7.00E-02	mg/kg-day	7.0E-02	4.90E-03	N/A	Kidney	3	IRIS	9/14/2003	NA	1.0
Cadmium	Chronic	1.00E-03	mg/kg-day	2.5E-02	2.50E-05	N/A	Blood	10	IRIS	9/14/2003	0.001	1.0
Chromium VI	Chronic	3.00E-03	mg/kg-day	2.5E-02	7.50E-05	N/A	None	900	IRIS	9/14/2003	NA	1.0
Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	1.0
Manganese	Chronic	1.40E-01	mg/kg-day	4.0E-02	5.60E-03	mg/kg-day	CNS	3	IRIS	9/14/2003	NA	1.0
Nickel	Chronic	2.00E-02	mg/kg-day	4.0E-02	8.00E-04	mg/kg-day	Body Weight	300	IRIS	9/14/2003	NA	1.0
Thallium	Chronic	8.00E-05	mg/kg-day	1.0E+00	8.00E-05	mg/kg-day	None	3000	IRIS	9/14/2003	NA	1.0
Vanadium	Chronic	7.00E-03	mg/kg-day	2.6E-02	1.82E-04	mg/kg-day	Hair	100	HEAST	6/19/1905	NA	1.0
Zinc	Chronic	3.00E-01	mg/kg-day	1.0E+00	3.00E-01	mg/kg-day	Blood	3	IRIS	9/14/2003	NA	1.0
Asbestos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	1.0

N/A = Not Applicable

(1) To be used for oral pathway only. Based on administered dose.

(2) Adjusted RfD = oral RfD x GI absorption value in toxicity study upon which the RfD is based. To be used for dermal pathway only.

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
RAYMARK OU6, STRATFORD, CONNECTICUT

Chemical of Potential Concern	Oral Cancer Slope Factor (1)	GI Absorption in Toxicity Study	Adjusted Dermal Cancer Slope Factor (2)	Units	Weight of Evidence/Cancer Guideline Description	Source	Date (MM/DD/YY)	Dermal Absorption Factor for Soils (DABS)	Oral Absorption Factor for Soils (OABS)
Trichloroethene	4.0E-01	1.0E+00	4.0E-01	1/(mg/kg-day)	N/A	EPA-NCEA		NA	1.0
Acetophenone	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Acenaphthylene	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	0.13	1.0
Benzo(a)anthracene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Benzo(a)pyrene	7.3E+00	1.0E+00	7.3E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.13	1.0
Benzo(b)fluoranthene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Benzo(k)fluoranthene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Dibenzo(a,h)anthracene	7.3E+00	1.0E+00	7.3E+00	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
Indeno(1,2,3-cd)pyrene	7.3E-01	1.0E+00	7.3E-01	1/(mg/kg-day)	B2	EPA-NCEA		0.13	1.0
4,4'-DDT	3.0E-01	1.0E+00	2.0E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003		1.0
Aroclor, Total (Conservative)	2.0E+00	1.0E+00	2.0E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.14	1.0
Dieldrin	1.6E+01	1.0E+00	1.60E+01	1/(mg/kg-day)	B2	IRIS	9/14/2003	N/A	1.0
Endrin Ketone	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	NA	1.0
Dioxin TEQ	1.5E+05	1.0E+00	1.5E+05	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.03	0.5
Dioxin TEQ ⁽³⁾	1.0E+06	1.0E+00	1.0E+06	1/(mg/kg-day)	B2	EPA (3)	2001	0.03	0.5
Antimony	N/A	N/A	N/A	N/A	B2	N/A	N/A	N/A	1.0
Arsenic	1.5E+00	1.0E+00	1.5E+00	1/(mg/kg-day)	B2	IRIS	9/14/2003	0.03	1.0
Barium	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	N/A	1.0
Cadmium	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	0.001	1.0
Chromium VI	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Lead	N/A	N/A	N/A	N/A	B2	IRIS	9/14/2003	NA	1.0
Manganese	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Nickel	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Thallium	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Vanadium	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	NA	1.0
Zinc	N/A	N/A	N/A	N/A	D	IRIS	9/14/2003	N/A	1.0
Asbestos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0

IRIS = Integrated Risk Information System

HEAST= Health Effects Assessment Summary Tables

NCEA=National Center for Environmental Assessment

(1) To be used for oral pathway only. Based on administered dose.

(2) Adjusted slope factor (SF) = oral SF x GI absorption value in toxicity study upon which the SF is based. To be used for dermal pathway only.

(3) Proposed Dioxin CSF per Draft Dioxin Reassessment, EPA, 2001

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

TABLE 7.1A RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.93E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.46E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.66E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	2.26E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	7.32E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.86E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.32E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	1.50E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	2.99E-03
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	5.82E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	1.71E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	4.27E-02
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	1.11E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.70E-02
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.08E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	1.08E-02
	Chromium	2010	mg/kg	2010	mg/kg	M	6.69E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.23E-01
	Lead	1490	mg/kg	1490	mg/kg	M	4.96E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium (Total)	4	mg/kg	4	mg/kg	M	1.33E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	1.66E-02
													1.26E+00
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.66E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.26E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.43E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.94E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	6.28E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.72E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.61E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	2.31E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.20E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	7.33E-03
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	7.16E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	2.86E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium (Total)	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
													8.71E-01

Total of Routes 2.14E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.1B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.16E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	8.78E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	9.98E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.36E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.39E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.12E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.59E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	8.98E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.80E-03
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	3.49E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	1.03E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	2.56E-02
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	6.67E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.22E-02
	Barium	3770	mg/kg	3770	mg/kg	M	7.53E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.08E-02
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	6.51E-06	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	6.51E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	4.01E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.34E-01
	Lead	1490	mg/kg	1490	mg/kg	M	2.97E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	7.90E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.65E-04
	Nickel	157	mg/kg	157	mg/kg	M	3.13E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.57E-03
	Thallium	4	mg/kg	4	mg/kg	M	7.98E-07	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	9.98E-03
	Vanadium	87	mg/kg	87	mg/kg	M	1.74E-05	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	2.48E-03
	Zinc	1950	mg/kg	1950	mg/kg	M	3.89E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.30E-03
	(Total)												7.75E-01
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	6.01E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	4.56E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	680	µg/kg	680	µg/kg	M	7.04E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.28E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.24E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.12E-01
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	8.36E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	7.98E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.66E-03
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.60E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	1.04E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												3.16E-01
													Total of Routes
													1.09E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.1C RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	1.08E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	8.20E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	9.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.27E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.10E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	1.04E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.22E+00
	Dieldrin	450	µg/kg	450	µg/kg	M	8.38E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.68E-02
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	3.26E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	9.58E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	2.39E-01
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	6.22E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.07E-01
	Barium	3770	mg/kg	3770	mg/kg	M	7.02E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.00E-01
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	6.07E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	6.07E-02
	Chromium	2010	mg/kg	2010	mg/kg	M	3.74E-03	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.25E+00
	Lead	1490	mg/kg	1490	mg/kg	M	2.78E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	7.38E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.27E-03
	Nickel	157	mg/kg	157	mg/kg	M	2.92E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.46E-02
	Thallium	4	mg/kg	4	mg/kg	M	7.45E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	9.32E-02
	Vanadium	87	mg/kg	87	mg/kg	M	1.62E-04	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	2.32E-02
	Zinc	1950	mg/kg	1950	mg/kg	M	3.63E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.21E-02
	(Total)												7.24E+00
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	3.93E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	2.98E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.39E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.61E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.49E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	4.09E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.04E+00
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.35	µg/kg	0.35	µg/kg	M	5.48E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	5.23E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.74E-02
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.70E-07	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	6.80E-03
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												2.07E+00
													Total of Routes
													9.31E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.3 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	1300	µg/kg	1300	µg/kg	M	3.43E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	3.43E-06
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	1.59E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	950	µg/kg	950	µg/kg	M	2.51E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	7.40E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.70E+00
	Dioxin TEQ	20.1	µg/kg	20.1	µg/kg	M	2.66E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	1.90E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.34E-03
	Barium	16700	mg/kg	16700	mg/kg	M	4.41E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.30E-02
	Chromium	172	mg/kg	172	mg/kg	M	4.54E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-02
	Lead (Total)	40100	mg/kg	40100	mg/kg	M	1.06E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													3.78E+00
Dermal	Acetophenone	1300	µg/kg	1300	µg/kg	M	2.27E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.27E-06
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	1.36E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	950	µg/kg	950	µg/kg	M	2.15E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	9.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	6.84E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.42E+00
	Dioxin TEQ	20.1	µg/kg	20.1	µg/kg	M	1.05E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	3.77E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.26E-03
	Barium	16700	mg/kg	16700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	172	mg/kg	172	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	40100	mg/kg	40100	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													3.42E+00
													Total of Routes 7.20E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.4 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	9400	µg/kg	9400	µg/kg	M	6.44E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	6.44E-05
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	6.85E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	8.22E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	5.34E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	2.53E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	3.90E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	1.23E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	6.16E+00
	Dioxin TEQ	2.6	µg/kg	2.6	µg/kg	M	8.90E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	7.67E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.56E-02
	Barium	14500	mg/kg	14500	mg/kg	M	9.93E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.42E-01
	Chromium	86.1	mg/kg	86.1	mg/kg	M	5.90E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.97E-02
	Lead (Total)	13000	mg/kg	13000	mg/kg	M	8.90E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
Dermal	Acetophenone	9400	µg/kg	9400	µg/kg	M	4.25E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	4.25E-05
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	5.88E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	7.05E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	4.58E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	2.17E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	3.35E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	1.14E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.70E+00
	Dioxin TEQ	2.6	µg/kg	2.6	µg/kg	M	3.53E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	1.52E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.06E-03
	Barium	14500	mg/kg	14500	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	13000	mg/kg	13000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--

Total of Routes 1.21E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.5 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 Ferry Blvd
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Trichloroethene	330	µg/kg	330	µg/kg	M	2.52E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.40E-04
	Acetophenone	7000	µg/kg	7000	µg/kg	M	5.34E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	5.34E-05
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	1.53E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	1.30E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.37E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	2.98E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	7.63E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	8.40E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.20E+00
	Dioxin TEQ	4	µg/kg	4	µg/kg	M	1.53E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	5.95E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.98E-02
	Barium	9290	mg/kg	9290	mg/kg	M	7.09E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.01E-01
	Chromium	136	mg/kg	136	mg/kg	M	1.04E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	3.46E-02
	Lead (Total)	41700	mg/kg	41700	mg/kg	M	3.18E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													4.35E+00
Dermal	Trichloroethene	330	µg/kg	330	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Acetophenone	7000	µg/kg	7000	µg/kg	M	3.53E-06	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	3.53E-05
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	1.31E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	1.11E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.18E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	2.55E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	6.55E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	7.76E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.88E+00
	Dioxin TEQ	4	µg/kg	4	µg/kg	M	6.04E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	1.18E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.93E-03
	Barium	9290	mg/kg	9290	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	136	mg/kg	136	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	41700	mg/kg	41700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													3.88E+00
													Total of Routes 8.24E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.6 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	180	µg/kg	180	µg/kg	M	1.18E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.18E-06
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	3.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	1.90E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.51E+00
	Dioxin TEQ	0.6	µg/kg	0.6	µg/kg	M	1.97E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	4.98E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.66E-02
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	3.10E-05	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	3.10E-02
	Chromium	86.8	mg/kg	86.8	mg/kg	M	5.69E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.90E-02
	Lead (Total)	46000	mg/kg	46000	mg/kg	M	3.02E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													9.57E+00
Dermal	Acetophenone	180	µg/kg	180	µg/kg	M	7.79E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	7.79E-07
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	3.04E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	1.76E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.78E+00
	Dioxin TEQ	0.6	µg/kg	0.6	µg/kg	M	7.79E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	9.87E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.29E-03
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	2.05E-07	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	8.19E-03
	Chromium	86.8	mg/kg	86.8	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	46000	mg/kg	46000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													8.79E+00
													Total of Routes 1.84E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.7 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: Lot Behind 326 Ferry Boulevard

Receptor Population: Commercial Worker

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	3.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	9.26E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.63E+00
	Dieldrin	120	µg/kg	120	µg/kg	M	5.05E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	1.01E-03
	Dioxin TEQ	2.5	µg/kg	2.5	µg/kg	M	5.26E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	3.62E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.21E-02
	Barium	10500	mg/kg	10500	mg/kg	M	4.42E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.31E-02
	Chromium	105	mg/kg	105	mg/kg	M	4.42E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.47E-02
	Lead (Total)	9130	mg/kg	9130	mg/kg	M	3.84E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
Dermal	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	2.64E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	8.55E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.28E+00
	Dieldrin	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	2.5	µg/kg	2.5	µg/kg	M	2.08E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	7.16E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.39E-03
	Barium	10500	mg/kg	10500	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	105	mg/kg	105	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	9130	mg/kg	9130	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
Total of Routes													4.28E+00
9.00E+00													

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.8A RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	3.03E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.58E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.80E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	4.43E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.36E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	2.08E-06	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	4.16E-03
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.89E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.45E+00
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	8.59E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.86E-03
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	2.37E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.94E-06	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	7.35E-03
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	3.39E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.13E-02
	Barium	12900	mg/kg	12900	mg/kg	M	5.83E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	8.33E-02
	Chromium	148	mg/kg	148	mg/kg	M	6.69E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.23E-02
	Lead	35400	mg/kg	35400	mg/kg	M	1.60E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	1.98E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.41E-03
	Nickel	580	µg/kg	580	µg/kg	M	2.62E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.31E-02
	Vanadium	77	µg/kg	77	µg/kg	M	3.48E-05	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	4.97E-03
	Zinc (Total)	4730	mg/kg	4730	mg/kg	M	2.14E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	7.13E-03
													1.60E+00
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.57E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	1.34E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	1.45E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	2.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	7.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	2.49E-07	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	4.98E-04
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	1.62E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.08E-01
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	5.68E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	4.06E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.35E-03
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc (Total)	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
													8.10E-01
													Total of Routes 2.41E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.8B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	2.83E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.40E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.62E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	4.13E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.27E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.94E-05	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	3.88E-02
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.70E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.35E+01
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	8.02E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.67E-02
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	2.22E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.74E-05	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	6.86E-02
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	3.16E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.05E-01
	Barium	12900	mg/kg	12900	mg/kg	M	5.44E-02	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	7.78E-01
	Chromium	148	mg/kg	148	mg/kg	M	6.24E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.08E-01
	Lead	35400	mg/kg	35400	mg/kg	M	1.49E-01	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	1.85E-03	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.32E-02
	Nickel	580	µg/kg	580	µg/kg	M	2.45E-03	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.22E-01
	Vanadium	77	µg/kg	77	µg/kg	M	3.25E-04	mg/kg-day	7.00E-03	mg/kg-day	N/A	N/A	4.64E-02
	Zinc	4730	mg/kg	4730	mg/kg	M	2.00E-02	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	6.65E-02
	(Total)												1.50E+01
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.03E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	8.75E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	9.52E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.51E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	4.61E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.63E-06	mg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	3.26E-03
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	1.06E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.29E+00
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	10.5	µg/kg	10.5	µg/kg	M	3.72E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.66E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.86E-03
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	1.82E-04	mg/kg-day	N/A	N/A	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												5.30E+00
													Total of Routes
													2.03E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.9 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	2.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	2.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	2.84E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	3.91E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.96E-02
	Dioxin TEQ	0.031	µg/kg	0.031	µg/kg	M	1.52E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic (Total)	9.6	mg/kg	9.6	mg/kg	M	9.39E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.13E-03
Dermal	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	2.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	2.18E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	2.43E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	3.62E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.81E-02
	Dioxin TEQ	0.031	µg/kg	0.031	µg/kg	M	6.01E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic (Total)	9.6	mg/kg	9.6	mg/kg	M	1.86E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.20E-04
													Total of Routes 4.14E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.10 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	8.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	1.19E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	1.68E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.42E+00
	Dieldrin	980	µg/kg	980	µg/kg	M	4.03E-07	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	8.05E-03
	Dioxin TEQ	16.8	µg/kg	16.8	µg/kg	M	3.45E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	8.10E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.70E-02
	Barium	17000	mg/kg	17000	mg/kg	M	6.99E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	9.98E-02
	Chromium	596	mg/kg	596	mg/kg	M	2.45E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	8.16E-02
	Lead	24700	mg/kg	24700	mg/kg	M	1.02E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	1.36E-06	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	1.70E-02
	(Total)												8.66E+00
Dermal	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	1.13E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	7.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	1.02E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	1.56E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	7.78E+00
	Dieldrin	980	µg/kg	980	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	16.8	µg/kg	16.8	µg/kg	M	1.37E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	1.60E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.34E-03
	Barium	17000	mg/kg	17000	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	596	mg/kg	596	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	24700	mg/kg	24700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Thallium	3.3	mg/kg	3.3	mg/kg	M	N/A	mg/kg-day	8.00E-05	mg/kg-day	N/A	N/A	--
	(Total)												7.79E+00
													Total of Routes 1.64E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.11 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: 600 East Broadway

Receptor Population: Commercial Worker

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Trichloroethene	120	µg/kg	120	µg/kg	M	2.47E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.22E-05
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	7.40E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	5.14E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.03E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	4.52E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	1.77E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.84E-01
	Dioxin TEQ	0.45	µg/kg	0.45	µg/kg	M	4.62E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	1.27E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.24E-02
	Barium	10900	mg/kg	10900	mg/kg	M	2.24E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	3.20E-02
	Chromium	221	mg/kg	221	mg/kg	M	4.54E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-02
	Lead	12900	mg/kg	12900	mg/kg	M	2.65E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc (Total)	12900	mg/kg	12900	mg/kg	M	2.65E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	8.84E-03
Dermal	Trichloroethene	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	--
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	6.35E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	4.41E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	8.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	3.88E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	1.63E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.16E-01
	Dioxin TEQ	0.45	µg/kg	0.45	µg/kg	M	1.83E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	2.52E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.39E-03
	Barium	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	221	mg/kg	221	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc (Total)	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--

Total of Routes 1.81E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.12 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: Vacant DOT Lot Abutting I-95

Receptor Population: Commercial Worker

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	2.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	2.91E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	3.52E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	2.03E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.01E-01
	Dioxin TEQ	0.087	µg/kg	0.087	µg/kg	M	3.83E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	12	mg/kg	12	mg/kg	M	1.06E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.52E-03
	Chromium	53.6	mg/kg	53.6	mg/kg	M	4.72E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.57E-03
	Lead (Total)	3680	mg/kg	3680	mg/kg	M	3.24E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
Dermal	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	1.74E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	2.49E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	3.02E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	1.87E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	9.36E-02
	Dioxin TEQ	0.087	µg/kg	0.087	µg/kg	M	1.52E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	12	mg/kg	12	mg/kg	M	2.09E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.97E-04
	Chromium	53.6	mg/kg	53.6	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	3680	mg/kg	3680	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													Total of Routes 2.01E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13A RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	1.17E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	9.30E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	1.27E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	1.37E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	2.40E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.20E-02
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	1.35E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.48E-03
	Chromium	92.3	mg/kg	92.3	mg/kg	M	4.52E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.51E-03
	Lead (Total)	1210	mg/kg	1210	mg/kg	M	5.92E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													1.80E-02
Dermal	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	1.01E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	7.98E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	1.09E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	1.18E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	2.22E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.11E-02
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	2.66E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.88E-04
	Chromium	92.3	mg/kg	92.3	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead (Total)	1210	mg/kg	1210	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													1.20E-02
													Total of Routes 2.99E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: CT Right-of-Way - Residential Portion

Receptor Population: Residents

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.30E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	7.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.59E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.89E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	3.06E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.53E-01
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	7.66E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.24E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.08E-02
	Barium	768	mg/kg	768	mg/kg	M	4.52E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.46E-03
	Lead	662	mg/kg	662	mg/kg	M	3.90E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
Dermal	Manganese	176	mg/kg	176	mg/kg	M	1.04E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	7.41E-04
	(Total)												1.71E-01
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	6.72E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	5.50E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	3.67E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	8.25E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	2.02E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.71E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.55E-02
	Toxicity Equivalency						0.00E+00	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.88E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.29E-03
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
(Total)	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	(Total)												8.68E-02
													Total of Routes 2.58E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.13C RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.21E-05	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	9.90E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	6.60E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.48E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.63E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	2.86E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.43E+00
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	7.15E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	3.02E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.01E-01
	Barium	768	mg/kg	768	mg/kg	M	4.22E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	6.03E-02
	Lead	662	mg/kg	662	mg/kg	M	3.64E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	9.68E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	6.91E-03
(Total)													1.60E+00
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	4.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.60E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	5.40E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.12E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.60E-01
	Toxicity Equivalency						0.00E+00	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.54E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.47E-03
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
(Total)													5.69E-01
													Total of Routes
													2.17E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.14 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	300	µg/kg	300	µg/kg	M	1.29E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.29E-06
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	1.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	2.20E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.10E+01
	Dioxin TEQ	0.47	µg/kg	0.47	µg/kg	M	1.01E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	6.93E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.31E-02
	Barium	8110	mg/kg	8110	mg/kg	M	3.49E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.99E-02
	Chromium	76.5	mg/kg	76.5	mg/kg	M	3.29E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.10E-02
	Lead	43400	mg/kg	43400	mg/kg	M	1.87E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	18400	mg/kg	18400	mg/kg	M	7.92E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	2.64E-02
(Total)													1.11E+01
Dermal	Acetophenone	300	µg/kg	300	µg/kg	M	8.52E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	8.52E-07
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	1.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	2.03E-04	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.01E+01
	Dioxin TEQ	0.47	µg/kg	0.47	µg/kg	M	4.01E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	1.37E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.57E-03
	Barium	8110	mg/kg	8110	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	43400	mg/kg	43400	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Zinc	18400	mg/kg	18400	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
(Total)													1.01E+01
													Total of Routes
													2.12E+01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.15 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aroclor, Total (Conservative) Lead (Total)	1200	µg/kg	1200	µg/kg	M	8.45E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.23E-02
		27000	mg/kg	27000	mg/kg	M	1.90E-02	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dermal	1200	µg/kg	1200	µg/kg	M	7.81E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.91E-02
Dermal	Aroclor, Total (Conservative) Lead (Total)	27000	mg/kg	27000	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													3.91E-02
Total of Routes													8.13E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.17 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	1.27E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	4.11E-08	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.05E-03
	Arsenic	10	mg/kg	10	mg/kg	M	9.78E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.26E-04
	Chromium	337	mg/kg	337	mg/kg	M	3.30E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	1.10E-03
	Lead	10900	mg/kg	10900	mg/kg	M	1.07E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												3.48E-03
Dermal	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	1.09E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	3.80E-08	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.90E-03
	Arsenic	10	mg/kg	10	mg/kg	M	1.94E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.46E-05
	Chromium	337	mg/kg	337	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	(Total)												1.96E-03
Total of Routes													5.44E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.20A RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	9.69E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	7.93E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.41E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	6.78E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	6.08E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	3.04E-01
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	3.43E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	2.01E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.69E-03
	Barium	19700	mg/kg	19700	mg/kg	M	1.73E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	2.48E-02
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	8.89E-07	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	8.89E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	7.11E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.37E-03
	Lead	7990	mg/kg	7990	mg/kg	M	7.04E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	4.61E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	3.30E-04
	Nickel	165	µg/kg	165	µg/kg	M	1.45E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	7.27E-04
	Zinc	2780	mg/kg	2780	mg/kg	M	2.45E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	8.16E-04
	(Total)												3.40E-01
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	5.02E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	4.11E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.48E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	7.31E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	3.52E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	3.39E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.70E-01
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	8.22E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	2.40E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	8.01E-04
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	3.55E-09	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	1.42E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												1.71E-01
													Total of Routes 5.11E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.20B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	9.04E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	7.40E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	9.86E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.32E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	6.33E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	5.67E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.84E+00
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	3.21E-09	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.87E-05	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.25E-02
	Barium	19700	mg/kg	19700	mg/kg	M	1.62E-02	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	2.31E-01
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	8.30E-06	mg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	8.30E-03
	Chromium	80.7	mg/kg	80.7	mg/kg	M	6.63E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	2.21E-02
	Lead	7990	mg/kg	7990	mg/kg	M	6.57E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	4.31E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	3.08E-03
	Nickel	165	µg/kg	165	µg/kg	M	1.36E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	6.78E-03
	Zinc	2780	mg/kg	2780	mg/kg	M	2.28E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	7.62E-03
	(Total)												3.18E+00
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	3.29E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.69E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.59E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.79E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.30E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	2.22E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.11E+00
	Dioxin TEQ	7.8	µg/kg	7.8	µg/kg	M	5.39E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.57E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.25E-03
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	2.32E-08	mg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	9.30E-04
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												1.12E+00
													Total of Routes 4.30E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.21 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: One Beacon Point Road
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	7.34E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	6.85E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.87E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	1.71E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	4.45E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	1.17E-06	mg/kg-day	2.00E-05	mg/kg-day			5.87E-02
	Dioxin TEQ	0.77	µg/kg	0.77	µg/kg	M	1.88E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	1.91E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	6.36E-04
	Chromium	4270	mg/kg	4270	mg/kg	M	2.09E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	6.96E-02
	Lead	14800	mg/kg	14800	mg/kg	M	7.24E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese (Total)	7220	mg/kg	7220	mg/kg	M	3.53E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	2.52E-03
													1.32E-01
Dermal	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	6.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	5.88E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	5.04E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	1.47E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	3.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	1.08E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.42E-02
	Dioxin TEQ	0.77	µg/kg	0.77	µg/kg	M	7.46E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	3.78E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.26E-04
	Chromium	4270	mg/kg	4270	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	14800	mg/kg	14800	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese (Total)	7220	mg/kg	7220	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
													Total of Routes
													1.86E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.22 RME
CALCULATION OF NON-CANCER HAZARDS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Airport Property North of Marine Basin
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	2.95E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	2.47E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	2.12E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	2.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	8.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	1.78E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	3.56E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	1.19E-03
	Lead (Total)	8130	mg/kg	8130	mg/kg	M	5.57E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													1.19E-03
Dermal	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	2.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	2.12E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	1.82E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	2.17E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	7.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	1.53E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	7.05E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.35E-04
	Lead (Total)	8130	mg/kg	8130	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
													2.35E-04
Total of Routes													1.42E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.23A RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.76E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.76E-07
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.53E-07	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	2.54E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	5.64E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	4.46E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.23E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.76E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibeno(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	8.92E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	2.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	9.86E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.93E-02
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	2.35E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.32E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.38E-04
	Barium	13100	mg/kg	13100	mg/kg	M	3.08E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.39E-03
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.77E-06	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	5.90E-04
	Lead	17300	mg/kg	17300	mg/kg	M	4.06E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	7.54E-06	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.38E-05
	Nickel	238	µg/kg	238	µg/kg	M	5.59E-06	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	2.79E-04
	(Total)												5.51E-02
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	7.03E-09	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	7.03E-08
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	7.92E-08	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	1.32E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	2.92E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	2.31E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	2.19E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.95E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibeno(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	4.63E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	1.14E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	5.51E-07	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	2.75E-02
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	5.62E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.57E-08	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	5.25E-05
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	(Total)												2.76E-02

Total of Routes 8.27E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.23B RME
CALCULATION OF NON-CANCER HAZARDS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.64E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.64E-06
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.42E-06	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	2.37E-05
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	5.26E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	4.16E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	3.95E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.51E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	8.33E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	2.06E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	9.21E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	4.60E-01
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	2.19E-10	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.23E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	4.09E-03
	Barium	13100	mg/kg	13100	mg/kg	M	2.87E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	4.10E-02
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.65E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	5.51E-03
	Lead	17300	mg/kg	17300	mg/kg	M	3.79E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	7.04E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	5.03E-04
	Nickel	238	µg/kg	238	µg/kg	M	5.22E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	2.61E-03
	(Total)												5.14E-01
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	4.60E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	4.60E-07
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	5.19E-07	mg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	8.64E-06
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.91E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.52E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.44E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.28E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	3.03E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	7.50E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.61E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.80E-01
	Dioxin TEQ	2	µg/kg	2	µg/kg	M	3.68E-11	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.03E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.44E-04
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	(Total)												1.81E-01

Total of Routes 6.95E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.24A RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.55E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.55E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	2.22E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	2.30E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	2.05E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	2.14E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	9.86E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.96E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.48E-01
	Dieldrin	40	µg/kg	40	µg/kg	M	3.29E-09	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	6.58E-05
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	6.16E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	3.45E-07	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	8.63E-04
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	9.70E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.23E-03
	Barium	9930	mg/kg	9930	mg/kg	M	8.16E-04	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.17E-02
	Chromium	156	mg/kg	156	mg/kg	M	1.28E-05	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	4.27E-03
	Lead	11700	mg/kg	11700	mg/kg	M	9.62E-04	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	2.57E-05	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.84E-04
	Nickel	439	µg/kg	439	µg/kg	M	3.61E-05	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.80E-03
	Zinc	7270	mg/kg	7270	mg/kg	M	5.98E-04	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.99E-03
	(Total)												1.72E-01
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	1.02E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	1.02E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	1.15E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	1.19E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.07E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.11E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	5.12E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.65E-06	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	8.26E-02
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	1.48E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	1.16E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.87E-04
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												8.30E-02
													Total of Routes: 2.55E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.24B RME
CALCULATION OF NON-CANCER HAZARDS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.38E-07	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	2.38E-06
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	2.07E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	2.15E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.92E-06	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.99E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	9.21E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.76E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	1.38E+00
	Dieldrin	40	µg/kg	40	µg/kg	M	3.07E-08	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	6.14E-04
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	5.75E-12	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	3.22E-06	mg/kg-day	4.00E-04	mg/kg-day	N/A	N/A	8.05E-03
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	9.05E-06	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	3.02E-02
	Barium	9930	mg/kg	9930	mg/kg	M	7.62E-03	mg/kg-day	7.00E-02	mg/kg-day	N/A	N/A	1.09E-01
	Chromium	156	mg/kg	156	mg/kg	M	1.20E-04	mg/kg-day	3.00E-03	mg/kg-day	N/A	N/A	3.99E-02
	Lead	11700	mg/kg	11700	mg/kg	M	8.98E-03	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	2.40E-04	mg/kg-day	1.40E-01	mg/kg-day	N/A	N/A	1.72E-03
	Nickel	439	µg/kg	439	µg/kg	M	3.37E-04	mg/kg-day	2.00E-02	mg/kg-day	N/A	N/A	1.68E-02
	Zinc	7270	mg/kg	7270	mg/kg	M	5.58E-03	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	1.86E-02
	(Total)												1.61E+00
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	6.66E-08	mg/kg-day	1.00E-01	mg/kg-day	N/A	N/A	6.66E-07
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	7.54E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	7.82E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	6.98E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Dibenz(a,h)anthracene	260	µg/kg	260	µg/kg	M	7.26E-08	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	3.35E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.08E-05	mg/kg-day	2.00E-05	mg/kg-day	N/A	N/A	5.41E-01
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	--
	Dioxin TEQ	0.015	µg/kg	0.015	µg/kg	M	9.67E-13	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	7.60E-07	mg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	2.53E-03
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	4.90E-03	mg/kg-day	N/A	N/A	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	7.50E-05	mg/kg-day	N/A	N/A	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	mg/kg-day	N/A	N/A	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	5.60E-03	mg/kg-day	N/A	N/A	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	8.00E-04	mg/kg-day	N/A	N/A	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	3.00E-01	mg/kg-day	N/A	N/A	--
	(Total)												5.44E-01
													Total of Routes 2.15E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 8.1A RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	6.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.03E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	5.2E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.82E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.34E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	8.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.90E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.7E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.33E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	5.3E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	8.55E-07
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	2.1E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.12E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	6.1E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.0E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.95E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	3.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.88E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	5.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.32E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	4.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.27E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	5.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.72E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	6.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.06E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	6.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.23E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	8.2E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.24E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	7.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.18E-06
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.95E-05
Total of Routes											4.82E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.1B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future Medium: Soil Exposure Medium: Soil Exposure Point: Lockwood Avenue Property Receptor Population: Recreational Visitors Receptor Age: Adult											
Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.90E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	3.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.20E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.50E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.40E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.10E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.66E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	3.1E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.93E-07
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	1.2E-11	mg/kg-day	1.0E+06	1/(mg/kg-day)	1.20E-05
	Antimony	51.4	mg/kg	51.4	mg/kg	M	3.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.43E-06
	Barium	3770	mg/kg	3770	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	2.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	1.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	2.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	2.7E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.68E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.14E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	2.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.76E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.70E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.28E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	2.9E-12	mg/kg-day	1.0E+06	1/(mg/kg-day)	2.87E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	2.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.10E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	8.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.21E-06
											3.60E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Proposed dioxin CSF from Dioxin Reassessment used for risk calculation.

TABLE 8.1C RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lockwood Avenue Property
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	9.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.76E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	7.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.13E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	8.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.83E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.93E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	3.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.56E-07
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	8.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.79E-05
	Dieldrin	450	µg/kg	450	µg/kg	M	7.2E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.15E-06
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.19E-06
	Antimony	51.4	mg/kg	51.4	mg/kg	M	8.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	5.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.00E-06
	Barium	3770	mg/kg	3770	mg/kg	M	6.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	5.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	3.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	6.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	2.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	6.4E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	1.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.87E-05
Dermal	Benzo(a)anthracene	5800	µg/kg	5800	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.46E-07
	Benzo(a)pyrene	4400	µg/kg	4400	µg/kg	M	2.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.87E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	2.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.12E-07
	Dibenzo(a,h)anthracene	680	µg/kg	680	µg/kg	M	4.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.89E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.34E-08
	Aroclor, Total (Conservative)	56000	µg/kg	56000	µg/kg	M	3.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.01E-06
	Dieldrin	450	µg/kg	450	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	0.35	µg/kg	0.35	µg/kg	M	4.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.04E-07
	Antimony	51.4	mg/kg	51.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	33.4	mg/kg	33.4	mg/kg	M	4.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.72E-07
	Barium	3770	mg/kg	3770	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	32.6	mg/kg	32.6	mg/kg	M	1.5E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	2010	mg/kg	2010	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	1490	mg/kg	1490	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	396	mg/kg	396	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	157	mg/kg	157	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium	4	mg/kg	4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	87	mg/kg	87	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	1950	mg/kg	1950	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.11E-05
											Total of Routes 4.98E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.3 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 230 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	1300	µg/kg	1300	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.27E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	8.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.27E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	9.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.54E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.76E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.28E-05
	Dioxin TEQ ⁽²⁾	20.1	µg/kg	20.1	µg/kg	M	9.5E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.42E-04
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	6.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-06
	Barium	16700	mg/kg	16700	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	3.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.04E-04
Dermal	Acetophenone	1300	µg/kg	1300	µg/kg	M	8.1E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.38E-07
	Benzo(a)pyrene	9100	µg/kg	9100	µg/kg	M	7.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.38E-06
	Benzo(b)fluoranthene	6000	µg/kg	6000	µg/kg	M	4.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.55E-07
	Dibenzo(a,h)anthracene	950	µg/kg	950	µg/kg	M	7.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.61E-07
	Indeno(1,2,3-cd)pyrene	4000	µg/kg	4000	µg/kg	M	3.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.36E-07
	Aroclor, Total (Conservative)	280000	µg/kg	280000	µg/kg	M	2.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.88E-05
	Dioxin TEQ ⁽²⁾	20.1	µg/kg	20.1	µg/kg	M	3.8E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	5.63E-05
	Arsenic	7.2	mg/kg	7.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	16700	mg/kg	16700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	172	mg/kg	172	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	40100	mg/kg	40100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.12E-04
											Total of Routes
											3.17E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.4 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	9400	µg/kg	9400	µg/kg	M	2.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.79E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.9E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.39E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.61E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.02E-06
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.4E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.81E-05
	Dioxin TEQ ⁽²⁾	2.6	µg/kg	2.6	µg/kg	M	3.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.77E-05
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.11E-06
	Barium	14500	mg/kg	14500	mg/kg	M	3.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	13000	mg/kg	13000	mg/kg	M	3.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.66E-04
Dermal	Acetophenone	9400	µg/kg	9400	µg/kg	M	1.5E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	10000	µg/kg	10000	µg/kg	M	2.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-06
	Benzo(a)pyrene	12000	µg/kg	12000	µg/kg	M	2.5E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-05
	Benzo(b)fluoranthene	7800	µg/kg	7800	µg/kg	M	1.6E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-06
	Dibenzo(a,h)anthracene	370	µg/kg	370	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.67E-07
	Indeno(1,2,3-cd)pyrene	5700	µg/kg	5700	µg/kg	M	1.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.73E-07
	Aroclor, Total (Conservative)	180000	µg/kg	180000	µg/kg	M	4.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.14E-05
	Dioxin TEQ ⁽²⁾	2.6	µg/kg	2.6	µg/kg	M	1.3E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.89E-05
	Arsenic	11.2	mg/kg	11.2	mg/kg	M	5.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.14E-07
	Barium	14500	mg/kg	14500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.1	mg/kg	86.1	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	13000	mg/kg	13000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.24E-04
Total of Routes											2.90E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.5 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 -280 FERRY BLVD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 280 Ferry Blvd
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	330	µg/kg	330	µg/kg	M	9.0E-08	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.60E-08
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.9E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	5.5E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.6E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.9E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.58E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	1.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.76E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.99E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	3.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.00E-05
	Dioxin TEQ ⁽²⁾	4	µg/kg	4	µg/kg	M	5.5E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.18E-05
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.19E-06
	Barium	9290	mg/kg	9290	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	41700	mg/kg	41700	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.96E-04
Dermal	Trichloroethene	330	µg/kg	330	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Acetophenone	7000	µg/kg	7000	µg/kg	M	1.3E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	20000	µg/kg	20000	µg/kg	M	4.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.41E-06
	Benzo(a)pyrene	17000	µg/kg	17000	µg/kg	M	4.0E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.90E-05
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	4.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.07E-06
	Dibenzo(a,h)anthracene	3900	µg/kg	3900	µg/kg	M	9.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.66E-06
	Indeno(1,2,3-cd)pyrene	10000	µg/kg	10000	µg/kg	M	2.3E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.71E-06
	Aroclor, Total (Conservative)	110000	µg/kg	110000	µg/kg	M	2.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.54E-05
	Dioxin TEQ ⁽²⁾	4	µg/kg	4	µg/kg	M	2.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.24E-05
	Arsenic	7.8	mg/kg	7.8	mg/kg	M	4.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.31E-07
	Barium	9290	mg/kg	9290	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	136	mg/kg	136	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	41700	mg/kg	41700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.32E-04
Total of Routes											3.28E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.6 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 300 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	180	µg/kg	180	µg/kg	M	4.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.23E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.36E-04
	Dioxin TEQ ⁽²⁾	0.6	µg/kg	0.6	µg/kg	M	7.0E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.05E-05
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.67E-06
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	1.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	2.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	46000	mg/kg	46000	mg/kg	M	1.1E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.50E-04
Dermal	Acetophenone	180	µg/kg	180	µg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	540	µg/kg	540	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.92E-07
	Aroclor, Total (Conservative)	290000	µg/kg	290000	µg/kg	M	6.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.25E-04
	Dioxin TEQ ⁽²⁾	0.6	µg/kg	0.6	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.17E-06
	Arsenic	7.6	mg/kg	7.6	mg/kg	M	3.5E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.28E-07
	Cadmium	47.3	mg/kg	47.3	mg/kg	M	7.3E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	86.8	mg/kg	86.8	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	46000	mg/kg	46000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.31E-04
Total of Routes											2.81E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.7 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Lot Behind 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.01E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.61E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	1.8E-08	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.89E-07
	Dioxin TEQ ⁽²⁾	2.5	µg/kg	2.5	µg/kg	M	1.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.82E-05
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	1.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.94E-06
	Barium	10500	mg/kg	10500	mg/kg	M	1.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										9.73E-05
Dermal	Benzo(a)pyrene	730	µg/kg	730	µg/kg	M	9.4E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.87E-07
	Aroclor, Total (Conservative)	220000	µg/kg	220000	µg/kg	M	3.1E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.11E-05
	Dieldrin	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	2.5	µg/kg	2.5	µg/kg	M	7.4E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.12E-05
	Arsenic	8.6	mg/kg	8.6	mg/kg	M	2.6E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.84E-07
	Barium	10500	mg/kg	10500	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	105	mg/kg	105	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	9130	mg/kg	9130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.33E-05
Total of Routes											1.71E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.8A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future Medium: Soil Exposure Medium: Soil Exposure Point: Vacant Lot at Housatonic Avenue Receptor Population: Residents Receptor Age: Adult											
Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.45E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	9.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.01E-07
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.11E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	4.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.39E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	7.1E-07	mg/kg-day	3.0E-01	1/(mg/kg-day)	2.14E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.98E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	2.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	10.5	µg/kg	10.5	µg/kg	M	8.1E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.22E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	1.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.74E-06
	Barium	12900	mg/kg	12900	mg/kg	M	2.0E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	2.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	5.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	6.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	µg/kg	580	µg/kg	M	9.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	µg/kg	77	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	7.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.53E-04
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.93E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	4.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.35E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	5.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.64E-07
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.75E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.76E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	8.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.71E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	5.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	10.5	µg/kg	10.5	µg/kg	M	1.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.92E-05
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	1.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.09E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										4.55E-05
											Total of Routes 1.99E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.8B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT Housatonic Avenue

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant Lot at Housatonic Avenue
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	2.4E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-06
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	2.1E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.50E-05
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	2.2E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-06
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	3.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.59E-06
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.92E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.7E-06	mg/kg-day	3.0E-01	1/(mg/kg-day)	4.99E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	2.3E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.63E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	6.9E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	10.5	µg/kg	10.5	µg/kg	M	1.9E-09	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.85E-04
	Antimony	6.5	mg/kg	6.5	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.7E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.07E-06
	Barium	12900	mg/kg	12900	mg/kg	M	4.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	5.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	1.3E-02	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	µg/kg	580	µg/kg	M	2.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	µg/kg	77	µg/kg	M	2.8E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	1.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.57E-04
Dermal	Benzo(a)anthracene	6700	µg/kg	6700	µg/kg	M	8.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.44E-07
	Benzo(a)pyrene	5700	µg/kg	5700	µg/kg	M	7.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.48E-06
	Benzo(b)fluoranthene	6200	µg/kg	6200	µg/kg	M	8.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.96E-07
	Dibenz(a,h)anthracene	980	µg/kg	980	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.42E-07
	Indeno(1,2,3-cd)pyrene	3000	µg/kg	3000	µg/kg	M	3.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-07
	4,4'-DDT	4600	µg/kg	4600	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.79E-07
	Aroclor, Total (Conservative)	64000	µg/kg	64000	µg/kg	M	9.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.81E-05
	Endrin Ketone	1900	µg/kg	1900	µg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	10.5	µg/kg	10.5	µg/kg	M	3.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.78E-05
	Antimony	6.5	mg/kg	6.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	7.5	mg/kg	7.5	mg/kg	M	2.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.42E-07
	Barium	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	148	mg/kg	148	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	35400	mg/kg	35400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	438	mg/kg	438	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	580	mg/kg	580	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Vanadium	77	mg/kg	77	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	4730	mg/kg	4730	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.46E-05
Total of Routes											4.32E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.9 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 326 Ferry Boulevard
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.63E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	9.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.63E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	1.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.40E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.80E-07
	Dioxin TEQ ⁽²⁾	0.031	µg/kg	0.031	µg/kg	M	5.4E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.12E-08
	Arsenic (Total)	9.6	mg/kg	9.6	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.03E-07 1.67E-06
Dermal	Benzo(a)anthracene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.69E-08
	Benzo(a)pyrene	2600	µg/kg	2600	µg/kg	M	7.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.69E-07
	Dibenzo(a,h)anthracene	290	µg/kg	290	µg/kg	M	8.7E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.35E-08
	Aroclor, Total (Conservative)	4000	µg/kg	4000	µg/kg	M	1.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.58E-07
	Dioxin TEQ ⁽²⁾	0.031	µg/kg	0.031	µg/kg	M	2.1E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.22E-08
	Arsenic (Total)	9.6	mg/kg	9.6	mg/kg	M	6.6E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.96E-08 1.08E-06
Total of Routes											2.75E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.10 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 576 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.43E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	4.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.11E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	6.0E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.20E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	1.4E-07	mg/kg-day	1.6E+01	1/(mg/kg-day)	2.30E-06
	Dioxin TEQ ⁽²⁾	16.8	µg/kg	16.8	µg/kg	M	1.2E-09	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.85E-04
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	2.9E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.34E-06
	Barium	17000	mg/kg	17000	mg/kg	M	2.5E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	8.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	3.6E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium (Total)	3.3	mg/kg	3.3	mg/kg	M	4.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
											3.15E-04
Dermal	Benzo(a)anthracene	3200	µg/kg	3200	µg/kg	M	4.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.94E-07
	Benzo(a)pyrene	2000	µg/kg	2000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Benzo(b)fluoranthene	2900	µg/kg	2900	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-07
	Aroclor, Total (Conservative)	410000	µg/kg	410000	µg/kg	M	5.6E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.11E-04
	Dieldrin	980	µg/kg	980	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	16.8	µg/kg	16.8	µg/kg	M	4.9E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.32E-05
	Arsenic	19.7	mg/kg	19.7	mg/kg	M	5.7E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.59E-07
	Barium	17000	mg/kg	17000	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	596	mg/kg	596	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	24700	mg/kg	24700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Thallium (Total)	3.3	mg/kg	3.3	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.88E-04
											Total of Routes
											5.02E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.11 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 600 EAST BROADWAY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 600 East Broadway
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Trichloroethene	120	µg/kg	120	µg/kg	M	8.8E-09	mg/kg-day	4.0E-01	1/(mg/kg-day)	3.52E-09
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.93E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.68E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.18E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	6.3E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.26E-05
	Dioxin TEQ ⁽²⁾	0.45	µg/kg	0.45	µg/kg	M	1.7E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.48E-06
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	4.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.81E-06
	Barium	10900	mg/kg	10900	mg/kg	M	8.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	9.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.38E-05
Dermal	Trichloroethene	120	µg/kg	120	µg/kg	M	N/A	mg/kg-day	4.0E-01	1/(mg/kg-day)	--
	Benzo(a)anthracene	3600	µg/kg	3600	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.65E-07
	Benzo(a)pyrene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.15E-06
	Benzo(b)fluoranthene	5000	µg/kg	5000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.30E-07
	Indeno(1,2,3-cd)pyrene	2200	µg/kg	2200	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.01E-07
	Aroclor, Total (Conservative)	86000	µg/kg	86000	µg/kg	M	5.8E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-05
	Dioxin TEQ ⁽²⁾	0.45	µg/kg	0.45	µg/kg	M	6.5E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.81E-07
	Arsenic	61.9	mg/kg	61.9	mg/kg	M	9.0E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.35E-06
	Barium	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	221	mg/kg	221	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	12900	mg/kg	12900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.56E-05
Total of Routes											3.95E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.12 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Vacant DOT Lot Abutting I-95
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	7.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.28E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.58E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.18E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	7.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-06
	Dioxin TEQ ⁽²⁾	0.087	µg/kg	0.087	µg/kg	M	1.4E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.05E-07
	Arsenic	12	mg/kg	12	mg/kg	M	3.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.66E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	1.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	1.2E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.91E-06
Dermal	Benzo(a)pyrene	2300	µg/kg	2300	µg/kg	M	6.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.53E-07
	Benzo(b)fluoranthene	3300	µg/kg	3300	µg/kg	M	8.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.50E-08
	Dibenzo(a,h)anthracene	400	µg/kg	400	µg/kg	M	1.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.88E-08
	Aroclor, Total (Conservative)	23000	µg/kg	23000	µg/kg	M	6.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.34E-06
	Dioxin TEQ ⁽²⁾	0.087	µg/kg	0.087	µg/kg	M	5.4E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	8.13E-08
	Arsenic	12	mg/kg	12	mg/kg	M	7.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.12E-07
	Chromium	53.6	mg/kg	53.6	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	3680	mg/kg	3680	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.13E-06
Total of Routes											5.04E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13A RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	4.2E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.06E-08
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	3.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.42E-07
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	4.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.32E-08
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	4.9E-09	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.57E-09
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	8.6E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.71E-07
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	4.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.21E-07
	Chromium	92.3	mg/kg	92.3	mg/kg	M	1.6E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	1210	mg/kg	1210	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	1.20E-06
Dermal	Benzo(a)anthracene	2400	µg/kg	2400	µg/kg	M	3.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.63E-08
	Benzo(a)pyrene	1900	µg/kg	1900	µg/kg	M	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.08E-07
	Benzo(b)fluoranthene	2600	µg/kg	2600	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.85E-08
	Dibenzo(a,h)anthracene	280	µg/kg	280	µg/kg	M	4.2E-09	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.06E-09
	Aroclor, Total (Conservative)	4900	µg/kg	4900	µg/kg	M	7.9E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.58E-07
	Arsenic	27.5	mg/kg	27.5	mg/kg	M	9.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.43E-07
	Chromium	92.3	mg/kg	92.3	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead (Total)	1210	mg/kg	1210	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	5.67E-07
Total of Routes											1.77E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	4.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.24E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.65E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.77E-07
	Dibeno(a,h)anthracene	270	µg/kg	270	µg/kg	M	5.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.98E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.73E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	1.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.10E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	2.6E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.94E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.67E-06
	Barium	768	mg/kg	768	mg/kg	M	1.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	176	mg/kg	176	mg/kg	M	3.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
											7.81E-06
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.68E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	1.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.38E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.18E-08
	Dibeno(a,h)anthracene	270	µg/kg	270	µg/kg	M	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.06E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	6.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.05E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	5.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.17E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.3E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.43E-08
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.99E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											3.36E-06
											Total of Routes 1.12E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.13C RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: CT Right-of-Way - Residential Portion
Receptor Population: Residents
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	1.0E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.57E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	8.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.19E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	5.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.13E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.29E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.27E-07
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	2.5E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.90E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	6.1E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	9.19E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.89E-06
	Barium	768	mg/kg	768	mg/kg	M	3.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	3.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	176	mg/kg	176	mg/kg	M	8.3E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.82E-05
Dermal	Benzo(a)anthracene	2200	µg/kg	2200	µg/kg	M	3.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.75E-07
	Benzo(a)pyrene	1800	µg/kg	1800	µg/kg	M	3.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.25E-06
	Benzo(b)fluoranthene	1200	µg/kg	1200	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.50E-07
	Dibenzo(a,h)anthracene	270	µg/kg	270	µg/kg	M	4.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.38E-07
	Indeno(1,2,3-cd)pyrene	660	µg/kg	660	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.26E-08
	Aroclor, Total (Conservative)	5200	µg/kg	5200	µg/kg	M	9.6E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.92E-06
	Toxicity Equivalency	0.026	µg/kg	0.026	µg/kg	M	1.0E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.54E-07
	Arsenic	5.5	mg/kg	5.5	mg/kg	M	2.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.27E-07
	Barium	768	mg/kg	768	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	662	mg/kg	662	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	176	mg/kg	176	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											5.50E-06
											Total of Routes 2.37E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.14 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 304 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	300	µg/kg	300	µg/kg	M	4.6E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	4.3E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.14E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.8E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.57E-04
	Dioxin TEQ ⁽²⁾	0.47	µg/kg	0.47	µg/kg	M	3.6E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	5.42E-06
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	2.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.71E-06
	Barium	8110	mg/kg	8110	mg/kg	M	1.2E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	1.2E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	6.7E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	2.8E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.66E-04
Dermal	Acetophenone	300	µg/kg	300	µg/kg	M	3.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)pyrene	280	µg/kg	280	µg/kg	M	3.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.70E-07
	Aroclor, Total (Conservative)	510000	µg/kg	510000	µg/kg	M	7.2E-05	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.45E-04
	Dioxin TEQ ⁽²⁾	0.47	µg/kg	0.47	µg/kg	M	1.4E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.15E-06
	Arsenic	16.1	mg/kg	16.1	mg/kg	M	4.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.35E-07
	Barium	8110	mg/kg	8110	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	76.5	mg/kg	76.5	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	43400	mg/kg	43400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	18400	mg/kg	18400	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.48E-04
Total of Routes											3.14E-04

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.15 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 340 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Aroclor, Total (Conservative) Lead (Total)	1200 27000	µg/kg mg/kg	1200 27000	µg/kg mg/kg	M M	3.0E-07 6.8E-03	mg/kg-day mg/kg-day	2.0E+00 N/A	1/(mg/kg-day) 1/(mg/kg-day)	6.04E-07 -- 6.04E-07
Dermal	Aroclor, Total (Conservative) Lead (Total)	1200 27000	µg/kg mg/kg	1200 27000	µg/kg mg/kg	M M	2.8E-07 N/A	mg/kg-day mg/kg-day	2.0E+00 N/A	1/(mg/kg-day) 1/(mg/kg-day)	5.58E-07 -- 5.58E-07
Total of Routes											1.16E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

TABLE 8.17 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: 250 East Main Street
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	4.5E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.32E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.94E-08
	Arsenic	10	mg/kg	10	mg/kg	M	3.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.24E-08
	Chromium	337	mg/kg	337	mg/kg	M	1.2E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	3.8E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.15E-07
Dermal	Benzo(a)pyrene	1300	µg/kg	1300	µg/kg	M	3.9E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.85E-08
	Aroclor, Total (Conservative)	4200	µg/kg	4200	µg/kg	M	1.4E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.71E-08
	Arsenic	10	mg/kg	10	mg/kg	M	6.9E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.04E-08
	Chromium	337	mg/kg	337	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	10900	mg/kg	10900	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.60E-08
Total of Routes											1.81E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.20A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	3.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.42E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.7E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.98E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.64E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.53E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.70E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	2.1E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.17E-06
	Dioxin TEQ ⁽²⁾	7.8	µg/kg	7.8	µg/kg	M	1.2E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.77E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	6.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.03E-06
	Barium	19700	mg/kg	19700	mg/kg	M	5.9E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	3.0E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	2.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	2.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	1.6E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	µg/kg	165	µg/kg	M	5.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	8.4E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.59E-05
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	1.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.26E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	1.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.03E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.37E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	2.5E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.83E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.80E-08
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.2E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.33E-06
	Dioxin TEQ ⁽²⁾	7.8	µg/kg	7.8	µg/kg	M	2.8E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.23E-06
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	8.2E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.24E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	1.2E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										8.24E-06
											Total of Routes 3.41E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.20B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Beacon Point Area
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	7.7E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.66E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	6.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.63E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	8.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.17E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	1.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.23E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	5.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.96E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	4.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	9.72E-06
	Dioxin TEQ ⁽²⁾	7.8	µg/kg	7.8	µg/kg	M	2.7E-10	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.12E-05
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.41E-06
	Barium	19700	mg/kg	19700	mg/kg	M	1.4E-03	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	7.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	5.7E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	5.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	3.7E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	µg/kg	165	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										6.04E-05
Dermal	Benzo(a)anthracene	11000	µg/kg	11000	µg/kg	M	2.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.06E-07
	Benzo(a)pyrene	9000	µg/kg	9000	µg/kg	M	2.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.68E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	3.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.25E-07
	Dibenzo(a,h)anthracene	1600	µg/kg	1600	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.00E-07
	Indeno(1,2,3-cd)pyrene	7700	µg/kg	7700	µg/kg	M	2.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.44E-07
	Aroclor, Total (Conservative)	69000	µg/kg	69000	µg/kg	M	1.9E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.81E-06
	Dioxin TEQ ⁽²⁾	7.8	µg/kg	7.8	µg/kg	M	4.6E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	6.92E-06
	Arsenic	22.8	mg/kg	22.8	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-07
	Barium	19700	mg/kg	19700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Cadmium	10.1	mg/kg	10.1	mg/kg	M	2.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	80.7	mg/kg	80.7	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	7990	mg/kg	7990	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	524	mg/kg	524	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	165	mg/kg	165	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	2780	mg/kg	2780	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.35E-05
Total of Routes											7.39E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.21 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: One Beacon Point Road
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.91E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.79E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	2.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.53E-07
	Dibeno(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	6.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.46E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.16E-07
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	4.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.39E-07
	Dioxin TEQ ⁽²⁾	0.77	µg/kg	0.77	µg/kg	M	6.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.01E-06
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	6.8E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.02E-07
	Chromium	4270	mg/kg	4270	mg/kg	M	7.5E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	2.6E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	7220	mg/kg	7220	mg/kg	M	1.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
											4.64E-06
Dermal	Benzo(a)anthracene	15000	µg/kg	15000	µg/kg	M	2.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.64E-07
	Benzo(a)pyrene	14000	µg/kg	14000	µg/kg	M	2.1E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.53E-06
	Benzo(b)fluoranthene	12000	µg/kg	12000	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.31E-07
	Dibeno(a,h)anthracene	3500	µg/kg	3500	µg/kg	M	5.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.83E-07
	Indeno(1,2,3-cd)pyrene	9100	µg/kg	9100	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.96E-08
	Aroclor, Total (Conservative)	24000	µg/kg	24000	µg/kg	M	3.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.75E-07
	Dioxin TEQ ⁽²⁾	0.77	µg/kg	0.77	µg/kg	M	2.7E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.00E-07
	Arsenic	3.9	mg/kg	3.9	mg/kg	M	1.3E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.02E-08
	Chromium	4270	mg/kg	4270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	14800	mg/kg	14800	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese (Total)	7220	mg/kg	7220	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											3.51E-06
											Total of Routes
											8.15E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.22 RME
CALCULATION OF CANCER RISKS - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Airport Property North of Marine Basin
Receptor Population: Commercial Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	1.1E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.68E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	8.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.43E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	7.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.54E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	9.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.61E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.9E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.14E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	6.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.64E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	1.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.91E-07
	Lead (Total)	8130	mg/kg	8130	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
											1.12E-05
Dermal	Benzo(a)anthracene	43000	µg/kg	43000	µg/kg	M	9.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.59E-07
	Benzo(a)pyrene	36000	µg/kg	36000	µg/kg	M	7.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.52E-06
	Benzo(b)fluoranthene	31000	µg/kg	31000	µg/kg	M	6.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.75E-07
	Benzo(k)fluoranthene	37000	µg/kg	37000	µg/kg	M	7.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.67E-07
	Dibenzo(a,h)anthracene	12000	µg/kg	12000	µg/kg	M	2.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.84E-06
	Indeno(1,2,3-cd)pyrene	26000	µg/kg	26000	µg/kg	M	5.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.98E-07
	Arsenic	5.2	mg/kg	5.2	mg/kg	M	2.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.78E-08
	Lead (Total)	8130	mg/kg	8130	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											9.49E-06
Total of Routes											2.07E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.23A RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	6.0E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	5.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.9E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.41E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.5E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.12E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.06E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.3E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	9.40E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	3.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.23E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.52E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.4E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.76E-07
	Dioxin TEQ ⁽²⁾	2	µg/kg	2	µg/kg	M	8.1E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.21E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	4.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.76E-08
	Barium	13100	mg/kg	13100	mg/kg	M	1.1E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	6.1E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	1.4E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	2.6E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	µg/kg	238	µg/kg	M	1.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.69E-06
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	2.4E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	2.7E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.32E-08
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.79E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	7.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.49E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	6.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.88E-08
	Dibenzo(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	1.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.16E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.87E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	1.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.78E-07
	Dioxin TEQ ⁽²⁾	2	µg/kg	2	µg/kg	M	1.9E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.89E-07
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	5.4E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	8.10E-09
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.58E-06
Total of Routes											5.26E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.23B RME
CALCULATION OF CANCER RISKS - RECREATIONAL VISITOR CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Wooster Park
Receptor Population: Recreational Visitors
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	750	µg/kg	750	µg/kg	M	1.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	4.5E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.29E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	3.6E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.61E-06
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	3.4E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-07
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	3.0E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.19E-07
	Dibenz(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	7.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.21E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.29E-07
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	7.9E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.58E-06
	Dioxin TEQ ⁽²⁾	2	µg/kg	2	µg/kg	M	1.9E-11	mg/kg-day	1.5E+05	1/(mg/kg-day)	2.82E-06
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.58E-07
	Barium	13100	mg/kg	13100	mg/kg	M	2.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	1.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	6.0E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel (Total)	238	µg/kg	238	µg/kg	M	4.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
											8.61E-06
Dermal	Acetophenone	750	µg/kg	750	µg/kg	M	3.9E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Acenaphthylene	6500	µg/kg	6500	µg/kg	M	4.4E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	24000	µg/kg	24000	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Benzo(a)pyrene	19000	µg/kg	19000	µg/kg	M	1.3E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.48E-07
	Benzo(b)fluoranthene	18000	µg/kg	18000	µg/kg	M	1.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	8.99E-08
	Benzo(k)fluoranthene	16000	µg/kg	16000	µg/kg	M	1.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	7.99E-08
	Dibenz(a,h)anthracene	3800	µg/kg	3800	µg/kg	M	2.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.90E-07
	Indeno(1,2,3-cd)pyrene	9400	µg/kg	9400	µg/kg	M	6.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.69E-08
	Aroclor, Total (Conservative)	42000	µg/kg	42000	µg/kg	M	3.1E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	6.19E-07
	Dioxin TEQ ⁽²⁾	2	µg/kg	2	µg/kg	M	3.2E-12	mg/kg-day	1.5E+05	1/(mg/kg-day)	4.73E-07
	Arsenic	5.6	mg/kg	5.6	mg/kg	M	8.8E-09	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.33E-08
	Barium	13100	mg/kg	13100	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	75.4	mg/kg	75.4	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	17300	mg/kg	17300	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	321	mg/kg	321	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel (Total)	238	mg/kg	238	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
											2.58E-06
											Total Routes
											1.12E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.24A RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Third Avenue Property
Receptor Population: Residents
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	8.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	7.6E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.55E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	7.9E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.76E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	7.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.14E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	7.3E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	5.35E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	3.4E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.47E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	1.0E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.03E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	1.1E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	1.80E-08
	Dioxin TEQ ⁽²⁾	0.015	µg/kg	0.015	µg/kg	M	2.1E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	3.17E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	1.2E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	3.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.99E-07
	Barium	9930	mg/kg	9930	mg/kg	M	2.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	4.4E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	3.3E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	8.8E-06	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	µg/kg	439	µg/kg	M	1.2E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	2.0E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										3.34E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	3.5E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	3.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.88E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	4.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.99E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	3.7E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.67E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	3.8E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.77E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	1.8E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.28E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	5.7E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.13E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	0.015	µg/kg	0.015	µg/kg	M	5.1E-14	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.59E-09
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	4.0E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	5.97E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										1.60E-06
											Total of Routes
											4.93E-06

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 8.24B RME
CALCULATION OF CANCER RISKS - RESIDENT CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future Medium: Soil Exposure Medium: Soil Exposure Point: Third Avenue Property Receptor Population: Residents Receptor Age: Child											
Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Acetophenone	310	µg/kg	310	µg/kg	M	2.0E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	1.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.30E-07
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	1.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.34E-06
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	1.6E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	1.20E-07
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	1.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.25E-07
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	7.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	5.76E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	2.4E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.73E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	2.6E-09	mg/kg-day	1.6E+01	1/(mg/kg-day)	4.21E-08
	Dioxin TEQ ⁽²⁾	0.015	µg/kg	0.015	µg/kg	M	4.9E-13	mg/kg-day	1.5E+05	1/(mg/kg-day)	7.40E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	2.8E-07	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	7.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.16E-06
	Barium	9930	mg/kg	9930	mg/kg	M	6.5E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	1.0E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	7.7E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	2.1E-05	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	µg/kg	439	µg/kg	M	2.9E-08	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	4.8E-04	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										7.79E-06
Dermal	Acetophenone	310	µg/kg	310	µg/kg	M	5.7E-09	mg/kg-day	N/A	1/(mg/kg-day)	--
	Benzo(a)anthracene	2700	µg/kg	2700	µg/kg	M	6.5E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.72E-08
	Benzo(a)pyrene	2800	µg/kg	2800	µg/kg	M	6.7E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.89E-07
	Benzo(b)fluoranthene	2500	µg/kg	2500	µg/kg	M	6.0E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	4.37E-08
	Dibenzo(a,h)anthracene	260	µg/kg	260	µg/kg	M	6.2E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.54E-08
	Indeno(1,2,3-cd)pyrene	1200	µg/kg	1200	µg/kg	M	2.9E-08	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.10E-08
	Aroclor, Total (Conservative)	36000	µg/kg	36000	µg/kg	M	9.3E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.86E-06
	Dieldrin	40	µg/kg	40	µg/kg	M	N/A	mg/kg-day	1.6E+01	1/(mg/kg-day)	--
	Dioxin TEQ ⁽²⁾	0.015	µg/kg	0.015	µg/kg	M	8.3E-14	mg/kg-day	1.5E+05	1/(mg/kg-day)	1.24E-08
	Antimony	4.2	mg/kg	4.2	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Arsenic	11.8	mg/kg	11.8	mg/kg	M	6.5E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.78E-08
	Barium	9930	mg/kg	9930	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Chromium	156	mg/kg	156	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Lead	11700	mg/kg	11700	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Manganese	313	mg/kg	313	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Nickel	439	mg/kg	439	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	Zinc	7270	mg/kg	7270	mg/kg	M	N/A	mg/kg-day	N/A	1/(mg/kg-day)	--
	(Total)										2.61E-06
											Total of Routes 1.04E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for risk calculation.

(2) Existing dioxin CSF used for risk calculation.

TABLE 9.1A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER CONTACT WITH SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.03E-07	--	4.32E-07	9.35E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.82E-06	--	3.27E-06	7.09E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.34E-07	--	3.72E-07	8.06E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.90E-07	--	5.06E-07	1.10E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.91E-07	--	1.64E-07	3.55E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.33E-05	--	1.23E-05	2.56E-05	Aroclor, Total	Skin/Eyes/Immune	9.32E-01	--	8.61E-01	1.79E+00
			Dieldrin	8.55E-07	--	--	8.55E-07	Dieldrin	Liver	2.99E-03	--	--	2.99E-03
			Dioxin TEQ	3.12E-06	--	1.24E-06	4.35E-06	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	4.27E-02	--	--	4.27E-02
			Arsenic	5.95E-06	--	1.18E-06	7.13E-06	Arsenic	Skin	3.70E-02	--	7.33E-03	4.44E-02
			Cadmium	--	--	--	--	Cadmium	Blood	1.08E-02	--	2.86E-03	1.37E-02
			Chromium	--	--	--	--	Chromium	None	2.23E-01	--	--	2.23E-01
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Thallium	--	--	--	--	Thallium	None	1.66E-02	--	--	1.66E-02
			(Total)	2.88E-05	0.00E+00	1.95E-05	4.82E-05	(Total)		1.26E+00	0.00E+00	8.71E-01	2.14E+00
				Total Risk Across Soil				4.82E-05	Total Hazard Index Across Soil				
				Total Risk Across All Media and All Exposure Routes				4.82E-05	Total Hazard Index Across All Media and All Exposure Routes				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.84E+00
Total Eye/Immune HI =	1.79E+00
Total Liver HI =	2.99E-03
Total Blood HI =	5.64E-02

TABLE 9.1B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total				
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.90E-07	--	1.50E-07	4.40E-07	Benzo(a)anthracene	N/A	--	--	--	--				
			Benzo(a)pyrene	2.20E-06	--	1.14E-06	3.34E-06		N/A	--	--	--	--				
			Benzo(b)fluoranthene	2.50E-07	--	1.30E-07	3.79E-07		N/A	--	--	--	--				
			Dibenzo(a,h)anthracene	3.40E-07	--	1.76E-07	5.16E-07		N/A	--	--	--	--				
			Indeno(1,2,3-cd)pyrene	1.10E-07	--	5.70E-08	1.67E-07		N/A	--	--	--	--				
			Aroclor, Total	7.66E-06	--	4.28E-06	1.19E-05		Aroclor, Total	Skin/Eyes/Immune	5.59E-01	--	3.12E-01	8.71E-01			
			Dieldrin	4.93E-07	--	--	4.93E-07		Dieldrin		1.80E-03	--	--	1.80E-03			
			Dioxin TEQ	1.80E-06	--	4.30E-07	2.23E-06		Dioxin TEQ		--	--	--	--			
			Antimony	--	--	--	--		Antimony		2.56E-02	--	--	2.56E-02			
			Arsenic	3.43E-06	--	4.10E-07	3.84E-06		Arsenic		2.22E-02	--	2.66E-03	2.49E-02			
			Barium	--	--	--	--		Barium		1.08E-02	--	--	1.08E-02			
			Cadmium	--	--	--	--		Cadmium		6.51E-03	--	1.04E-03	7.55E-03			
			Chromium	--	--	--	--		Chromium		None	1.34E-01	--	--			
			Lead	--	--	--	--		Lead		N/A	--	--	--			
			Manganese	--	--	--	--		Manganese		CNS	5.65E-04	--	5.65E-04			
			Nickel	--	--	--	--		Nickel		Body Weight	1.57E-03	--	1.57E-03			
			Thallium	--	--	--	--		Thallium		None	9.98E-03	--	9.98E-03			
			Vanadium	--	--	--	--		Vanadium		Hair	2.48E-03	--	2.48E-03			
			Zinc	--	--	--	--		Zinc		Blood	1.30E-03	--	1.30E-03			
			(Total)	1.66E-05	0.00E+00	6.78E-06	2.33E-05		(Total)			7.75E-01	0.00E+00	3.16E-01	1.09E+00		
Total Risk Across Soil				2.33E-05				Total Hazard Index Across Soil				1.09E+00					
Total Risk Across All Media and All Exposure Routes				2.33E-05				Total Hazard Index Across All Media and All Exposure Routes				1.09E+00					

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.96E-01
Total Eye/Immune HI =	8.71E-01
Total Liver HI =	1.80E-03
Total Blood HI =	3.45E-02
Total Kidney HI =	1.08E-02
Total CNS HI =	5.65E-04
Total Hair HI =	2.48E-03

TABLE 9.1C RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total				
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.76E-07	--	2.46E-07	9.22E-07	Benzo(a)anthracene	N/A	--	--	--	--				
			Benzo(a)pyrene	5.13E-06	--	1.87E-06	7.00E-06		N/A	--	--	--	--				
			Benzo(b)fluoranthene	5.83E-07	--	2.12E-07	7.95E-07		N/A	--	--	--	--				
			Dibenzo(a,h)anthracene	7.93E-07	--	2.89E-07	1.08E-06		N/A	--	--	--	--				
			Indeno(1,2,3-cd)pyrene	2.56E-07	--	9.34E-08	3.50E-07		N/A	--	--	--	--				
			Aroclor, Total	1.79E-05	--	7.01E-06	2.49E-05		Aroclor, Total	Skin/Eyes/Immune	5.22E+00	--	2.04E+00	7.26E+00			
			Dieldrin	1.15E-06	--	--	1.15E-06		Dieldrin		1.68E-02	--	--	1.68E-02			
			Dioxin TEQ	4.19E-06	--	7.04E-07	4.90E-06		Dioxin TEQ		N/A	--	--	--			
			Antimony	--	--	--	--		Antimony		2.39E-01	--	--	2.39E-01			
			Arsenic	8.00E-06	--	6.72E-07	8.67E-06		Arsenic		2.07E-01	--	1.74E-02	2.25E-01			
			Barium	--	--	--	--		Barium		1.00E-01	--	--	1.00E-01			
			Cadmium	--	--	--	--		Cadmium		6.07E-02	--	6.80E-03	6.75E-02			
			Chromium	--	--	--	--		Chromium		None	1.25E+00	--	--			
			Lead	--	--	--	--		Lead		N/A	--	--	--			
			Manganese	--	--	--	--		Manganese		CNS	5.27E-03	--	5.27E-03			
			Nickel	--	--	--	--		Nickel		Body Weight	1.46E-02	--	1.46E-02			
			Thallium	--	--	--	--		Thallium		None	9.32E-02	--	9.32E-02			
			Vanadium	--	--	--	--		Vanadium		Hair	2.32E-02	--	2.32E-02			
			Zinc	--	--	--	--		Zinc		Blood	1.21E-02	--	1.21E-02			
			(Total)	3.87E-05	0.00E+00	1.11E-05	4.98E-05		(Total)			7.24E+00	0.00E+00	2.07E+00	9.31E+00		
Total Risk Across Soil				4.98E-05				Total Hazard Index Across Soil				9.31E+00					
Total Risk Across All Media and All Exposure Routes				4.98E-05				Total Hazard Index Across All Media and All Exposure Routes				9.31E+00					

Existing dioxin CSF used for risk calculation.

Total Skin HI =	7.49E+00
Total Eye/Immune HI =	7.26E+00
Total Liver HI =	1.68E-02
Total Blood HI =	3.19E-01
Total Kidney HI =	1.00E-01
Total CNS HI =	5.27E-03
Total Hair HI =	2.32E-02

TABLE 9.3 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	3.43E-06	--	2.27E-06	5.70E-06
			Benzo(a)anthracene	6.27E-07	--	5.38E-07	1.16E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.27E-06	--	5.38E-06	1.16E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	4.13E-07	--	3.55E-07	7.68E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.54E-07	--	5.61E-07	1.22E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.76E-07	--	2.36E-07	5.12E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	5.28E-05	--	4.88E-05	1.02E-04	Aroclor, Total	Skin/Eyes/Immune	3.70E+00	--	3.42E+00	7.12E+00
			Dioxin TEQ	1.42E-04	--	5.63E-05	1.99E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.02E-06	--	2.02E-07	1.22E-06	Arsenic	Skin	6.34E-03	--	1.26E-03	7.60E-03
			Barium	--	--	--	--	Barium	Kidney	6.30E-02	--	--	6.30E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	2.04E-04	0.00E+00	1.12E-04	3.17E-04	(Total)		3.78E+00	0.00E+00	3.42E+00	7.20E+00
			Total Risk Across Soil	3.17E-04				Total Hazard Index Across Soil	7.20E+00				
			Total Risk Across All Media and All Exposure Routes	3.17E-04				Total Hazard Index Across All Media and All Exposure Routes	7.20E+00				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	7.12E+00
Total Eye/Immune HI =	7.12E+00
Total General HI =	5.70E-06

TABLE 9.4 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	6.44E-05	--	4.25E-05	1.07E-04
			Benzo(a)anthracene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-05	--	1.84E-05	3.98E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.39E-06	--	1.20E-06	2.59E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.61E-07	--	5.67E-07	1.23E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.02E-06	--	8.73E-07	1.89E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.81E-05	--	8.14E-05	1.69E-04	Aroclor, Total	Skin/Eyes/Immune	6.16E+00	--	5.70E+00	1.19E+01
			Dioxin TEQ	4.77E-05	--	1.89E-05	6.66E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.11E-06	--	8.14E-07	4.92E-06	Arsenic	Skin	2.56E-02	--	5.06E-03	3.06E-02
			Barium	--	--	--	--	Barium	Kidney	1.42E-01	--	--	1.42E-01
			Chromium	--	--	--	--	Chromium	None	1.97E-02	--	--	1.97E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.66E-04	0.00E+00	1.24E-04	2.90E-04	(Total)		6.35E+00	0.00E+00	5.70E+00	1.21E+01
				Total Risk Across Soil				2.90E-04	Total Hazard Index Across Soil				
				Total Risk Across All Media and All Exposure Routes				2.90E-04	Total Hazard Index Across All Media and All Exposure Routes				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.19E+01
Total Eye/Immune HI =	1.19E+01
Total Kidney HI =	1.42E-01
Total General HI =	1.07E-04

TABLE 9.5 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Trichloroethene	3.60E-08	--	--	3.60E-08	Trichloroethene Acetophenone Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Aroclor, Total Dioxin TEQ Arsenic Barium Chromium Lead (Total)	Liver/Kidney	8.40E-04	--	--	8.40E-04		
			Acetophenone	--	--	--	--		General	5.34E-05	--	3.53E-05	8.87E-05		
			Benzo(a)anthracene	3.98E-06	--	3.41E-06	7.39E-06		N/A	--	--	--	--		
			Benzo(a)pyrene	3.38E-05	--	2.90E-05	6.28E-05		N/A	--	--	--	--		
			Benzo(b)fluoranthene	3.58E-06	--	3.07E-06	6.65E-06		N/A	--	--	--	--		
			Dibenz(a,h)anthracene	7.76E-06	--	6.66E-06	1.44E-05		N/A	--	--	--	--		
			Indeno(1,2,3-cd)pyrene	1.99E-06	--	1.71E-06	3.70E-06		N/A	--	--	--	--		
			Aroclor, Total	6.00E-05	--	5.54E-05	1.15E-04		Aroclor, Total	4.20E+00	--	3.88E+00	8.08E+00		
			Dioxin TEQ	8.18E-05	--	3.24E-05	1.14E-04		N/A	--	--	--	--		
			Arsenic	3.19E-06	--	6.31E-07	3.82E-06		Skin	1.98E-02	--	3.93E-03	2.38E-02		
			Barium	--	--	--	--		Kidney	1.01E-01	--	--	1.01E-01		
			Chromium	--	--	--	--		None	3.46E-02	--	--	3.46E-02		
			Lead	--	--	--	--		N/A	--	--	--	--		
			(Total)	1.96E-04	0.00E+00	1.32E-04	3.28E-04		(Total)	4.35E+00	0.00E+00	3.88E+00	8.24E+00		
Total Risk Across Soil				3.28E-04		Total Hazard Index Across Soil				8.24E+00					
Total Risk Across All Media and All Exposure Routes				3.28E-04		Total Hazard Index Across All Media and All Exposure Routes				8.24E+00					

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.10E+00
Total Eye/Immune HI =	8.08E+00
Total Kidney HI =	1.02E-01
Total General HI =	8.87E-05
Total Liver HI =	8.40E-04

TABLE 9.6 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.18E-06	--	7.79E-07	1.96E-06
			Benzo(a)pyrene	9.23E-07	--	7.92E-07	1.71E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.36E-04	--	1.25E-04	2.61E-04	Aroclor, Total	Skin/Eyes/Immune	9.51E+00	--	8.78E+00	1.83E+01
			Dioxin TEQ	1.05E-05	--	4.17E-06	1.47E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.67E-06	--	5.28E-07	3.20E-06	Arsenic	Skin	1.66E-02	--	3.29E-03	1.99E-02
			Cadmium	--	--	--	--	Cadmium	Blood	3.10E-02	--	8.19E-03	3.92E-02
			Chromium	--	--	--	--	Chromium	None	1.90E-02	--	--	1.90E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.50E-04	0.00E+00	1.31E-04	2.81E-04	(Total)		9.57E+00	0.00E+00	8.79E+00	1.84E+01
Total Risk Across Soil				2.81E-04		Total Hazard Index Across Soil				1.84E+01			
Total Risk Across All Media and All Exposure Routes				2.81E-04		Total Hazard Index Across All Media and All Exposure Routes				1.84E+01			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.83E+01
Total Eye/Immune HI =	1.83E+01
Total General HI =	1.96E-06
Total Blood HI =	3.92E-02

TABLE 9.7 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	8.01E-07	--	6.87E-07	1.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.61E-05	--	6.11E-05	1.27E-04	Aroclor, Total	Skin/Eyes/Immune	4.63E+00	--	4.28E+00	8.90E+00
			Dieldrin	2.89E-07	--	--	2.89E-07	Dieldrin	Liver	1.01E-03	--	--	1.01E-03
			Dioxin TEQ	2.82E-05	--	1.12E-05	3.93E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.94E-06	--	3.84E-07	2.32E-06	Arsenic	Skin	1.21E-02	--	2.39E-03	1.44E-02
			Barium	--	--	--	--	Barium	Kidney	6.31E-02	--	--	6.31E-02
			Chromium	--	--	--	--	Chromium	None	1.47E-02	--	--	1.47E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	9.73E-05	0.00E+00	7.33E-05	1.71E-04	(Total)		4.72E+00	0.00E+00	4.28E+00	9.00E+00
Total Risk Across Soil				1.71E-04				Total Hazard Index Across Soil					9.00E+00
Total Risk Across All Media and All Exposure Routes				1.71E-04				Total Hazard Index Across All Media and All Exposure Routes					9.00E+00

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.92E+00
Total Eye/Immune HI =	8.90E+00
Total Kidney HI =	6.31E-02
Total Liver HI =	1.01E-03

TABLE 9.8A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.58E-07	--	3.93E-07	1.15E-06	Benzo(a)anthracene	N/A	--	--	--	--			
			Benzo(a)pyrene	6.45E-06	--	3.35E-06	9.79E-06		N/A	--	--	--	--			
			Benzo(b)fluoranthene	7.01E-07	--	3.64E-07	1.07E-06		N/A	--	--	--	--			
			Dibenzo(a,h)anthracene	1.11E-06	--	5.75E-07	1.68E-06		N/A	--	--	--	--			
			Indeno(1,2,3-cd)pyrene	3.39E-07	--	1.76E-07	5.15E-07		N/A	--	--	--	--			
			4,4'-DDT	2.14E-07	--	1.71E-07	3.85E-07		4,4'-DDT	4.16E-03	--	4.98E-04	4.66E-03			
			Aroclor, Total (Conservative)	1.98E-05	--	1.11E-05	3.09E-05		Aroclor, Total (Conservative)	1.45E+00	--	8.08E-01	2.25E+00			
			Endrin Ketone	--	--	--	--		Endrin Ketone	2.86E-03	--	--	2.86E-03			
			Dioxin TEQ	1.22E-04	--	2.92E-05	1.51E-04		Dioxin TEQ	N/A	--	--	--			
			Antimony	--	--	--	--		Antimony	7.35E-03	--	--	7.35E-03			
			Arsenic	1.74E-06	--	2.09E-07	1.95E-06		Arsenic	1.13E-02	--	1.35E-03	1.27E-02			
			Barium	--	--	--	--		Barium	8.33E-02	--	--	8.33E-02			
			Chromium	--	--	--	--		Chromium	None	2.23E-02	--	2.23E-02			
			Lead	--	--	--	--		Lead	N/A	--	--	--			
			Manganese	--	--	--	--		Manganese	1.41E-03	--	--	1.41E-03			
			Nickel	--	--	--	--		Nickel	1.31E-02	--	--	1.31E-02			
			Vanadium	--	--	--	--		Vanadium	4.97E-03	--	--	4.97E-03			
			Zinc	--	--	--	--		Zinc	7.13E-03	--	--	7.13E-03			
			(Total)	1.53E-04	0.00E+00	4.55E-05	1.99E-04		(Total)	1.60E+00	0.00E+00	8.10E-01	2.41E+00			
Total Risk Across Soil				1.99E-04	Total Hazard Index Across Soil				Total Skin HI =	2.27E+00						
Total Risk Across All Media and All Exposure Routes				1.99E-04	Total Hazard Index Across All Media and All Exposure Routes				Total Eye/Immune HI =	2.25E+00						

Existing dioxin CSF used for risk calculation.

Total Kidney HI =	8.33E-02
Total Liver HI =	7.52E-03
Total Blood HI =	1.45E-02
Total CNS HI =	4.28E-03
Total Body Weight HI =	1.31E-02
Total Hair HI =	4.97E-03

TABLE 9.8B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.77E-06	--	6.44E-07	2.41E-06	Benzo(a)anthracene	N/A	--	--	--	--		
			Benzo(a)pyrene	1.50E-05	--	5.48E-06	2.05E-05		N/A	--	--	--	--		
			Benzo(b)fluoranthene	1.64E-06	--	5.96E-07	2.23E-06		N/A	--	--	--	--		
			Dibenzo(a,h)anthracene	2.59E-06	--	9.42E-07	3.53E-06		N/A	--	--	--	--		
			Indeno(1,2,3-cd)pyrene	7.92E-07	--	2.88E-07	1.08E-06		N/A	--	--	--	--		
			4,4'-DDT	4.99E-07	--	2.79E-07	7.79E-07		Liver	3.88E-02	--	3.26E-03	4.21E-02		
			Aroclor, Total (Conservative)	4.63E-05	--	1.81E-05	6.44E-05		Aroclor, Total (Conservative)	1.35E+01	--	5.29E+00	1.88E+01		
			Endrin Ketone	--	--	--	--		Liver, CNS	2.67E-02	--	--	2.67E-02		
			Dioxin TEQ	2.85E-04	--	4.78E-05	3.33E-04		Dioxin TEQ	N/A	--	--	--		
			Antimony	--	--	--	--		Antimony	6.86E-02	--	--	6.86E-02		
			Arsenic	4.07E-06	--	3.42E-07	4.41E-06		Arsenic	1.05E-01	--	8.86E-03	1.14E-01		
			Barium	--	--	--	--		Barium	7.78E-01	--	--	7.78E-01		
			Chromium	--	--	--	--		Chromium	2.08E-01	--	--	2.08E-01		
			Lead	--	--	--	--		Lead	N/A	--	--	--		
			Manganese	--	--	--	--		Manganese	1.32E-02	--	--	1.32E-02		
			Nickel	--	--	--	--		Nickel	1.22E-01	--	--	1.22E-01		
			Vanadium	--	--	--	--		Vanadium	4.64E-02	--	--	4.64E-02		
			Zinc	--	--	--	--		Zinc	6.65E-02	--	--	6.65E-02		
			(Total)	3.57E-04	0.00E+00	7.46E-05	4.32E-04		(Total)	1.50E+01	0.00E+00	5.30E+00	2.03E+01		
Total Risk Across Soil				4.32E-04		Total Hazard Index Across Soil		2.03E+01		Total Hazard Index Across All Media and All Exposure Routes					
Total Risk Across All Media and All Exposure Routes				4.32E-04		Total Hazard Index Across All Media and All Exposure Routes		2.03E+01							

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.89E+01
Total Eye/Immune HI =	1.88E+01
Total Kidney HI =	7.78E-01
Total Liver HI =	6.88E-02
Total Blood HI =	1.35E-01
Total CNS HI =	3.99E-02
Total Body Weight HI =	1.22E-01
Total Hair HI =	4.64E-02

TABLE 9.9 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	6.63E-08	--	5.69E-08	1.23E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.63E-07	--	5.69E-07	1.23E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	7.40E-08	--	6.35E-08	1.37E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Aroclor, Total	2.80E-07	--	2.58E-07	5.38E-07	Aroclor, Total	Skin/Eyes/Immune	1.96E-02	--	1.81E-02	3.77E-02
			Dioxin TEQ	8.12E-08	--	3.22E-08	1.13E-07	Dioxin TEQ	N/A	--	--	--	--
			Arsenic (Total)	5.03E-07	--	9.96E-08	6.03E-07	Arsenic (Total)	Skin	3.13E-03	--	6.20E-04	3.75E-03
				1.67E-06	0.00E+00	1.08E-06	2.75E-06			2.27E-02	0.00E+00	1.87E-02	4.14E-02
				Total Risk Across Soil					Total Hazard Index Across Soil				
				2.75E-06					4.14E-02				
				Total Risk Across All Media and All Exposure Routes					Total Hazard Index Across All Media and All Exposure Routes				
				2.75E-06					4.14E-02				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	4.14E-02
Total Eye/Immune HI =	3.77E-02

TABLE 9.10 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.43E-07	--	2.94E-07	6.37E-07	Benzo(a)anthracene	N/A	--	--	--	--			
			Benzo(a)pyrene	2.14E-06	--	1.84E-06	3.98E-06		N/A	--	--	--	--			
			Benzo(b)fluoranthene	3.11E-07	--	2.67E-07	5.77E-07		N/A	--	--	--	--			
			Aroclor, Total	1.20E-04	--	1.11E-04	2.32E-04		Aroclor, Total	Skin/Eyes/Immune	8.42E+00	--	7.78E+00	1.62E+01		
			Dieldrin	2.30E-06	--	--	2.30E-06		Dieldrin		8.05E-03	--	--	8.05E-03		
			Dioxin TEQ	1.85E-04	--	7.32E-05	2.58E-04		Dioxin TEQ		--	--	--	--		
			Arsenic	4.34E-06	--	8.59E-07	5.20E-06		Arsenic		2.70E-02	--	5.34E-03	3.23E-02		
			Barium	--	--	--	--		Barium		9.98E-02	--	--	9.98E-02		
			Chromium	--	--	--	--		Chromium		8.16E-02	--	--	8.16E-02		
			Lead	--	--	--	--		Lead		--	--	--	--		
			Thallium	--	--	--	--		Thallium		1.70E-02	--	--	1.70E-02		
			(Total)	3.15E-04	0.00E+00	1.88E-04	5.02E-04		(Total)		8.66E+00	0.00E+00	7.79E+00	1.64E+01		
Total Risk Across Soil				5.02E-04				Total Hazard Index Across Soil				1.64E+01				
Total Risk Across All Media and All Exposure Routes				5.02E-04				Total Hazard Index Across All Media and All Exposure Routes				1.64E+01				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.62E+01
Total Eye/Immune HI =	1.62E+01
Total Kidney HI =	9.98E-02
Total Liver HI =	8.05E-03

TABLE 9.11 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 -600 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Trichloroethene	3.52E-09	--	--	3.52E-09	Trichloroethene	Liver/Kidney	8.22E-05	--	--	8.22E-05
			Benzo(a)anthracene	1.93E-07	--	1.65E-07	3.58E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	1.15E-06	2.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.68E-07	--	2.30E-07	4.98E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.18E-07	--	1.01E-07	2.19E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.26E-05	--	1.17E-05	2.43E-05	Aroclor, Total	Skin/Eyes/Immune	8.84E-01	--	8.16E-01	1.70E+00
			Dioxin TEQ	2.48E-06	--	9.81E-07	3.46E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.81E-06	--	1.35E-06	8.16E-06	Arsenic	Skin	4.24E-02	--	8.39E-03	5.08E-02
			Barium	--	--	--	--	Barium	Kidney	3.20E-02	--	--	3.20E-02
			Chromium	--	--	--	--	Chromium	None	1.51E-02	--	--	1.51E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	8.84E-03	--	--	8.84E-03
			(Total)	2.38E-05	0.00E+00	1.56E-05	3.95E-05	(Total)		9.82E-01	0.00E+00	8.25E-01	1.81E+00
			Total Risk Across Soil				3.95E-05	Total Hazard Index Across Soil					1.81E+00
			Total Risk Across All Media and All Exposure Routes				3.95E-05	Total Hazard Index Across All Media and All Exposure Routes					1.81E+00

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.75E+00
Total Eye/Immune HI =	1.70E+00
Total Kidney HI =	3.21E-02
Total Liver HI =	8.22E-05
Total Blood HI =	8.84E-03

TABLE 9.12 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient												
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total								
Soil	Soil	On-Site Soil	Benzo(a)pyrene	5.28E-07	--	4.53E-07	9.81E-07	Skin/Eyes/Immune	Benzo(a)pyrene	--	--	--	--								
			Benzo(b)fluoranthene	7.58E-08	--	6.50E-08	1.41E-07		Benzo(b)fluoranthene	--	--	--	--								
			Dibenzo(a,h)anthracene	9.18E-08	--	7.88E-08	1.71E-07		Dibenzo(a,h)anthracene	--	--	--	--								
			Aroclor, Total	1.45E-06	--	1.34E-06	2.78E-06		Aroclor, Total	1.01E-01	--	9.36E-02	1.95E-01								
			Dioxin TEQ	2.05E-07	--	8.13E-08	2.86E-07		Dioxin TEQ	--	--	--	--								
			Arsenic	5.66E-07	--	1.12E-07	6.78E-07		Arsenic	3.52E-03	--	6.97E-04	4.22E-03								
			Chromium	--	--	--	--		Chromium	1.57E-03	--	--	1.57E-03								
			Lead	--	--	--	--		Lead	--	--	--	--								
			(Total)	2.91E-06	0.00E+00	2.13E-06	5.04E-06		(Total)	1.06E-01	0.00E+00	9.43E-02	2.01E-01								
			Total Risk Across Soil	5.04E-06			Total Risk Across All Media and All Exposure Routes	5.04E-06			Total Hazard Index Across Soil	2.01E-01									
													Total Hazard Index Across All Media and All Exposure Routes								
													2.01E-01								
													Total Skin HI = 1.99E-01								
													Total Eye/Immune HI = 1.95E-01								

TABLE 9.13A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.06E-08	--	2.63E-08	5.69E-08	Benzo(a)anthracene	N/A	--	--	--	--		
			Benzo(a)pyrene	2.42E-07	--	2.08E-07	4.50E-07		N/A	--	--	--	--		
			Benzo(b)fluoranthene	3.32E-08	--	2.85E-08	6.16E-08		N/A	--	--	--	--		
			Dibenzo(a,h)anthracene	3.57E-09	--	3.06E-09	6.64E-09		Dibenzo(a,h)anthracene	N/A	--	--	--		
			Aroclor, Total	1.71E-07	--	1.58E-07	3.29E-07		Aroclor, Total	1.20E-02	--	1.11E-02	2.31E-02		
			Arsenic	7.21E-07	--	1.43E-07	8.63E-07		Skin/Eyes/Immune	4.48E-03	--	8.88E-04	5.37E-03		
			Chromium	--	--	--	--		Chromium	1.51E-03	--	--	1.51E-03		
			Lead	--	--	--	--		Lead	--	--	--	--		
(Total)				1.20E-06	0.00E+00	5.67E-07	1.77E-06	(Total)					2.99E-02		
Total Risk Across Soil				1.77E-06		Total Hazard Index Across Soil				2.99E-02					
Total Risk Across All Media and All Exposure Routes				1.77E-06		Total Hazard Index Across All Media and All Exposure Routes				2.99E-02					
Total Skin HI = 2.84E-02 Total Eye/Immune HI = 2.31E-02															

TABLE 9.13B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.24E-07	--	1.68E-07	4.93E-07	Benzo(a)anthracene	N/A	--	--	--	--			
			Benzo(a)pyrene	2.65E-06	--	1.38E-06	4.03E-06		N/A	--	--	--	--			
			Benzo(b)fluoranthene	1.77E-07	--	9.18E-08	2.69E-07		N/A	--	--	--	--			
			Dibenzo(a,h)anthracene	3.98E-07	--	2.06E-07	6.05E-07		N/A	--	--	--	--			
			Indeno(1,2,3-cd)pyrene	9.73E-08	--	5.05E-08	1.48E-07		N/A	--	--	--	--			
			Aroclor, Total (Conservative)	2.10E-06	--	1.17E-06	3.27E-06		Aroclor, Total (Conservative)	1.53E-01	--	8.55E-02	2.39E-01			
			Toxicity Equivalency	3.94E-07	--	9.43E-08	4.88E-07		Toxicity Equivalency	--	--	--	--			
			Arsenic	1.67E-06	--	1.99E-07	1.87E-06		Arsenic	1.08E-02	--	1.29E-03	1.21E-02			
			Barium	--	--	--	--		Barium	6.46E-03	--	--	6.46E-03			
			Lead	--	--	--	--		Lead	N/A	--	--	--			
			Manganese	--	--	--	--		Manganese	7.41E-04	--	--	7.41E-04			
			(Total)	7.81E-06	0.00E+00	3.36E-06	1.12E-05		(Total)	1.71E-01	0.00E+00	8.68E-02	2.58E-01			
Total Risk Across Soil				1.12E-05	Total Hazard Index Across Soil					2.58E-01						
Total Risk Across All Media and All Exposure Routes				1.12E-05	Total Hazard Index Across All Media and All Exposure Routes					2.58E-01						

Total Skin HI =	2.51E-01
Total Eye/Immune HI =	2.39E-01
Total Kidney HI =	6.46E-03
Total CNS HI =	7.41E-04

TABLE 9.13C RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.57E-07	--	2.75E-07	1.03E-06	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Aroclor, Total (Conservative) Toxicity Equivalency Arsenic Barium Lead Manganese (Total)	N/A	--	--	--	--		
			Benzo(a)pyrene	6.19E-06	--	2.25E-06	8.45E-06		N/A	--	--	--	--		
			Benzo(b)fluoranthene	4.13E-07	--	1.50E-07	5.63E-07		N/A	--	--	--	--		
			Dibenzo(a,h)anthracene	9.29E-07	--	3.38E-07	1.27E-06		N/A	--	--	--	--		
			Indeno(1,2,3-cd)pyrene	2.27E-07	--	8.26E-08	3.10E-07		N/A	--	--	--	--		
			Aroclor, Total (Conservative)	4.90E-06	--	1.92E-06	6.82E-06		Aroclor, Total (Conservative)	1.43E+00	--	5.60E-01	1.99E+00		
			Toxicity Equivalency	9.19E-07	--	1.54E-07	1.07E-06		Toxicity Equivalency	--	--	--	--		
			Arsenic	3.89E-06	--	3.27E-07	4.21E-06		Arsenic	1.01E-01	--	8.47E-03	1.09E-01		
			Barium	--	--	--	--		Barium	6.03E-02	--	--	6.03E-02		
			Lead	--	--	--	--		Lead	N/A	--	--	--		
			Manganese	--	--	--	--		Manganese	6.91E-03	--	--	6.91E-03		
				1.82E-05	0.00E+00	5.50E-06	2.37E-05						1.60E+00		
				Total Risk Across Soil									0.00E+00		
				Total Risk Across All Media and All Exposure Routes									5.69E-01		
													2.17E+00		
													Total Hazard Index Across Soil		
													2.17E+00		
													Total Hazard Index Across All Media and All Exposure Routes		
													2.17E+00		

Existing dioxin CSF used for risk calculation.

Total Skin HI =	2.10E+00
Total Eye/Immune HI =	1.99E+00
Total Kidney HI =	6.03E-02
Total CNS HI =	6.91E-03

TABLE 9.14 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.29E-06	--	8.52E-07	2.14E-06
			Benzo(a)pyrene	3.14E-07	--	2.70E-07	5.84E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.57E-04	--	1.45E-04	3.02E-04	Aroclor, Total	Skin/Eyes/Immune	1.10E+01	--	1.01E+01	2.11E+01
			Dioxin TEQ	5.42E-06	--	2.15E-06	7.57E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	3.71E-06	--	7.35E-07	4.45E-06	Arsenic	Skin	2.31E-02	--	4.57E-03	2.77E-02
			Barium	--	--	--	--	Barium	Kidney	4.99E-02	--	--	4.99E-02
			Chromium	--	--	--	--	Chromium	None	1.10E-02	--	--	1.10E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Zinc	--	--	--	--	Zinc	Blood	2.64E-02	--	--	2.64E-02
			(Total)	1.66E-04	0.00E+00	1.48E-04	3.14E-04	(Total)		1.11E+01	0.00E+00	1.01E+01	2.12E+01
Total Risk Across Soil				3.14E-04	Total Hazard Index Across Soil					2.12E+01			
Total Risk Across All Media and All Exposure Routes				3.14E-04	Total Hazard Index Across All Media and All Exposure Routes					2.12E+01			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	2.12E+01
Total Eye/Immune HI =	2.11E+01
Total Kidney HI =	4.99E-02
Total General HI =	2.14E-06
Total Blood HI =	2.64E-02

TABLE 9.15 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Aroclor, Total Lead (Total)	6.04E-07	--	5.58E-07	1.16E-06	Aroclor, Total Lead (Total)	Skin/Eyes/Immune N/A	4.23E-02	--	3.91E-02	8.13E-02		
				--	--	--	--			--	--	--	--		
				6.04E-07	0.00E+00	5.58E-07	1.16E-06		4.23E-02	0.00E+00	3.91E-02	8.13E-02			
Total Risk Across Soil				1.16E-06				Total Hazard Index Across Soil							
Total Risk Across All Media and All Exposure Routes				1.16E-06				Total Hazard Index Across All Media and All Exposure Routes							

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.13E-02
Total Eye/Immune HI =	8.13E-02

TABLE 9.17 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total				
Soil	Soil	On-Site Soil	Benzo(a)pyrene	3.32E-08	--	2.85E-08	6.16E-08	Benzo(a)pyrene	N/A	--	--	--	--				
			Aroclor, Total	2.94E-08	--	2.71E-08	5.65E-08	Aroclor, Total	Skin/Eyes/Immune	2.05E-03	--	1.90E-03	3.95E-03				
			Arsenic	5.24E-08	--	1.04E-08	6.28E-08	Arsenic	Skin	3.26E-04	--	6.46E-05	3.91E-04				
			Chromium	--	--	--	--	Chromium	None	1.10E-03	--	--	1.10E-03				
			Lead	--	--	--	--	Lead	N/A	--	--	--	--				
			(Total)	1.15E-07	0.00E+00	6.60E-08	1.81E-07	(Total)		3.48E-03	0.00E+00	1.96E-03	5.44E-03				
Total Risk Across Soil				1.81E-07	Total Hazard Index Across Soil					5.44E-03							
Total Risk Across All Media and All Exposure Routes				1.81E-07	Total Hazard Index Across All Media and All Exposure Routes					5.44E-03							
										Total Skin HI =	4.34E-03						
										Total Eye/Immune HI =	3.95E-03						

Existing dioxin CSF used for risk calculation.

TABLE 9.20A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	2.42E-07	--	1.26E-07	3.68E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.98E-06	--	1.03E-06	3.01E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.64E-07	--	1.37E-07	4.02E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	3.53E-07	--	1.83E-07	5.36E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.70E-07	--	8.80E-08	2.58E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.17E-06	--	2.33E-06	6.49E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	3.04E-01	--	1.70E-01	4.74E-01
			Dioxin TEQ	1.77E-05	--	4.23E-06	2.19E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.03E-06	--	1.24E-07	1.16E-06	Arsenic	Skin	6.69E-03	--	8.01E-04	7.49E-03
			Barium	--	--	--	--	Barium	Kidney	2.48E-02	--	--	2.48E-02
			Cadmium	--	--	--	--	Cadmium	Blood	8.89E-04	--	1.42E-04	1.03E-03
			Chromium	--	--	--	--	Chromium	None	2.37E-03	--	--	2.37E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.30E-04	--	--	3.30E-04
			Nickel	--	--	--	--	Nickel	Body Weight	7.27E-04	--	--	7.27E-04
			Zinc	--	--	--	--	Zinc	Blood	8.16E-04	--	--	8.16E-04
			(Total)	2.59E-05	0.00E+00	8.24E-06	3.41E-05	(Total)		3.40E-01	0.00E+00	1.71E-01	5.11E-01
				Total Risk Across Soil				3.41E-05	Total Hazard Index Across Soil				
				Total Risk Across All Media and All Exposure Routes				3.41E-05	Total Hazard Index Across All Media and All Exposure Routes				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	4.81E-01
Total Eye/Immune HI =	4.74E-01
Total Kidney HI =	2.48E-02
Total Blood HI =	1.85E-03
Total CNS HI =	3.30E-04
Total Body Weight HI =	7.27E-04

TABLE 9.20B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	5.66E-07	--	2.06E-07	7.72E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	4.63E-06	--	1.68E-06	6.31E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	6.17E-07	--	2.25E-07	8.42E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	8.23E-07	--	3.00E-07	1.12E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	3.96E-07	--	1.44E-07	5.40E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	9.72E-06	--	3.81E-06	1.35E-05	Aroclor, Total (Conservative)	Skin/Eyes/Immune	2.84E+00	--	1.11E+00	3.95E+00
			Dioxin TEQ	4.12E-05	--	6.92E-06	4.81E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.41E-06	--	2.02E-07	2.61E-06	Arsenic	Skin	6.25E-02	--	5.25E-03	6.77E-02
			Barium	--	--	--	--	Barium	Kidney	2.31E-01	--	--	2.31E-01
			Cadmium	--	--	--	--	Cadmium	Blood	8.30E-03	--	9.30E-04	9.23E-03
			Chromium	--	--	--	--	Chromium	None	2.21E-02	--	--	2.21E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	3.08E-03	--	--	3.08E-03
			Nickel	--	--	--	--	Nickel	Body Weight	6.78E-03	--	--	6.78E-03
			Zinc	--	--	--	--	Zinc	Blood	7.62E-03	--	--	7.62E-03
			(Total)	6.04E-05	0.00E+00	1.35E-05	7.39E-05	(Total)		3.18E+00	0.00E+00	1.12E+00	4.30E+00
			Total Risk Across All Media and All Exposure Routes		7.39E-05			Total Hazard Index Across All Media and All Exposure Routes		4.30E+00			
			Total Risk Across Soil		7.39E-05			Total Hazard Index Across Soil		4.30E+00			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	4.01E+00
Total Eye/Immune HI =	3.95E+00
Total Kidney HI =	2.31E-01
Total Blood HI =	1.68E-02
Total CNS HI =	3.08E-03
Total Body Weight HI =	6.78E-03

TABLE 9.21 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.91E-07	--	1.64E-07	3.55E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.53E-07	--	1.31E-07	2.84E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	4.46E-07	--	3.83E-07	8.29E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.16E-07	--	9.96E-08	2.16E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.39E-07	--	7.75E-07	1.61E-06	Aroclor, Total	Skin/Eyes/Immune	5.87E-02	--	5.42E-02	1.13E-01
			Dioxin TEQ	1.01E-06	--	4.00E-07	1.41E-06	Dioxin TEQ		--	--	--	--
			Arsenic	1.02E-07	--	2.02E-08	1.22E-07	Arsenic		6.36E-04	--	1.26E-04	7.62E-04
			Chromium	--	--	--	--	Chromium		6.96E-02	--	--	6.96E-02
			Lead	--	--	--	--	Lead		--	--	--	--
			Manganese	--	--	--	--	Manganese		2.52E-03	--	--	2.52E-03
			(Total)	4.64E-06	0.00E+00	3.51E-06	8.15E-06	(Total)		1.32E-01	0.00E+00	5.44E-02	1.86E-01
Total Risk Across Soil				8.15E-06		Total Hazard Index Across Soil				1.86E-01			
Total Risk Across All Media and All Exposure Routes				8.15E-06		Total Hazard Index Across All Media and All Exposure Routes				1.86E-01			

Total Skin HI =	1.14E-01
Total Eye/Immune HI =	1.13E-01
Total CNS HI =	2.52E-03

Existing dioxin CSF used for risk calculation.

TABLE 9.22 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.68E-07	--	6.59E-07	1.43E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	6.43E-06	--	5.52E-06	1.19E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.54E-07	--	4.75E-07	1.03E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	6.61E-07	--	5.67E-07	1.23E-06	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.14E-06	--	1.84E-06	3.98E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	4.64E-07	--	3.98E-07	8.63E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Arsenic	1.91E-07	--	3.78E-08	2.29E-07	Arsenic	Skin	1.19E-03	--	2.35E-04	1.42E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			(Total)	1.12E-05	0.00E+00	9.49E-06	2.07E-05	(Total)		1.19E-03	0.00E+00	2.35E-04	1.42E-03
Total Risk Across Soil				2.07E-05		Total Hazard Index Across Soil				1.42E-03			
Total Risk Across All Media and All Exposure Routes				2.07E-05		Total Hazard Index Across All Media and All Exposure Routes				1.42E-03			
Total Skin HI =													

Existing dioxin CSF used for risk calculation.

TABLE 9.23A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.76E-07	--	7.03E-08	2.46E-07
			Acenaphthylene	--	--	--	--	Acenaphthylene	N/A	2.54E-06	--	1.32E-06	3.86E-06
			Benzo(a)anthracene	1.41E-07	--	7.32E-08	2.14E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.12E-06	--	5.79E-07	1.70E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.06E-07	--	5.49E-08	1.61E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	9.40E-08	--	4.88E-08	1.43E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	2.23E-07	--	1.16E-07	3.39E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.52E-08	--	2.87E-08	8.39E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	6.76E-07	--	3.78E-07	1.05E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.93E-02	--	2.75E-02	7.69E-02
			Dioxin TEQ	1.21E-06	--	2.89E-07	1.50E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	6.76E-08	--	8.10E-09	7.57E-08	Arsenic	Skin	4.38E-04	--	5.25E-05	4.91E-04
			Barium	--	--	--	--	Barium	Kidney	4.39E-03	--	--	4.39E-03
			Chromium	--	--	--	--	Chromium	None	5.90E-04	--	--	5.90E-04
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.38E-05	--	--	5.38E-05
			Nickel	--	--	--	--	Nickel	Body Weight	2.79E-04	--	--	2.79E-04
			(Total)	3.69E-06	0.00E+00	1.58E-06	5.26E-06	(Total)		5.51E-02	0.00E+00	2.76E-02	8.27E-02
			Total Risk Across Soil	5.26E-06				Total Hazard Index Across Soil	7.74E-02				
			Total Risk Across All Media and All Exposure Routes	5.26E-06				Total Hazard Index Across All Media and All Exposure Routes	8.27E-02				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	7.74E-02
Total Eye/Immune HI =	7.69E-02
Total Kidney HI =	4.39E-03
Total General HI =	2.46E-07
Total CNS HI =	5.38E-05
Total Body Weight HI =	2.79E-04

TABLE 9.23B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	1.64E-06	--	4.60E-07	2.10E-06
			Acenaphthylene	--	--	--	--	Acenaphthylene	N/A	2.37E-05	--	8.64E-06	3.24E-05
			Benzo(a)anthracene	3.29E-07	--	1.20E-07	4.49E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.61E-06	--	9.48E-07	3.55E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	2.47E-07	--	8.99E-08	3.37E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Benzo(k)fluoranthene	2.19E-07	--	7.99E-08	2.99E-07	Benzo(k)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.21E-07	--	1.90E-07	7.11E-07	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.29E-07	--	4.69E-08	1.76E-07	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	1.58E-06	--	6.19E-07	2.20E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	4.60E-01	--	1.80E-01	6.41E-01
			Dioxin TEQ	2.82E-06	--	4.73E-07	3.29E-06	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.58E-07	--	1.33E-08	1.71E-07	Arsenic	Skin	4.09E-03	--	3.44E-04	4.43E-03
			Barium	--	--	--	--	Barium	Kidney	4.10E-02	--	--	4.10E-02
			Chromium	--	--	--	--	Chromium	None	5.51E-03	--	--	5.51E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	5.03E-04	--	--	5.03E-04
			Nickel	--	--	--	--	Nickel	Body Weight	2.61E-03	--	--	2.61E-03
			(Total)	8.61E-06	0.00E+00	2.58E-06	1.12E-05	(Total)		5.14E-01	0.00E+00	1.81E-01	6.95E-01
				Total Risk Across Soil				1.12E-05		Total Hazard Index Across Soil			
				Total Risk Across All Media and All Exposure Routes				1.12E-05		Total Hazard Index Across All Media and All Exposure Routes			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	6.45E-01
Total Eye/Immune HI =	6.41E-01
Total Kidney HI =	4.10E-02
Total General HI =	2.10E-06
Total CNS HI =	5.03E-04
Total Body Weight HI =	2.61E-03

TABLE 9.24A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.55E-07	--	1.02E-07	3.56E-07
			Benzo(a)anthracene	5.55E-08	--	2.88E-08	8.44E-08	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	5.76E-07	--	2.99E-07	8.75E-07	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	5.14E-08	--	2.67E-08	7.81E-08	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	5.35E-08	--	2.77E-08	8.12E-08	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	2.47E-08	--	1.28E-08	3.75E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	2.03E-06	--	1.13E-06	3.16E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.48E-01	--	8.26E-02	2.31E-01
			Dieldrin	1.80E-08	--	--	--	Dieldrin	Liver	6.58E-05	--	--	6.58E-05
			Dioxin TEQ	3.17E-08	--	7.59E-09	3.93E-08	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.63E-04	--	--	8.63E-04
			Arsenic	4.99E-07	--	5.97E-08	5.58E-07	Arsenic	Skin	3.23E-03	--	3.87E-04	3.62E-03
			Barium	--	--	--	--	Barium	Kidney	1.17E-02	--	--	1.17E-02
			Chromium	--	--	--	--	Chromium	None	4.27E-03	--	--	4.27E-03
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.84E-04	--	--	1.84E-04
			Nickel	--	--	--	--	Nickel	Body Weight	1.80E-03	--	--	1.80E-03
			Zinc	--	--	--	--	Zinc	Blood	1.99E-03	--	--	1.99E-03
			(Total)	3.34E-06	0.00E+00	1.60E-06	4.92E-06	(Total)		1.72E-01	0.00E+00	8.30E-02	2.55E-01
Total Risk Across Soil				4.92E-06		Total Hazard Index Across Soil				2.55E-01			
Total Risk Across All Media and All Exposure Routes				4.92E-06		Total Hazard Index Across All Media and All Exposure Routes				2.55E-01			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	2.34E-01
Total Eye/Immune HI =	2.31E-01
Total Kidney HI =	1.17E-02
Total General HI =	3.56E-07
Total Blood HI =	2.85E-03
Total CNS HI =	1.84E-04
Total Body Weight HI =	1.80E-03

TABLE 9.24B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Acetophenone	--	--	--	--	Acetophenone	General	2.38E-06	--	6.66E-07	3.04E-06
			Benzo(a)anthracene	1.30E-07	--	4.72E-08	1.77E-07	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	1.34E-06	--	4.89E-07	1.83E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.20E-07	--	4.37E-08	1.64E-07	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenz(a,h)anthracene	1.25E-07	--	4.54E-08	1.70E-07	Dibenz(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	5.76E-08	--	2.10E-08	7.86E-08	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total (Conservative)	4.73E-06	--	1.86E-06	6.59E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.38E+00	--	5.41E-01	1.92E+00
			Dieldrin	4.21E-08	--	--	--	Dieldrin	Liver	6.14E-04	--	--	6.14E-04
			Dioxin TEQ	7.40E-08	--	1.24E-08	8.64E-08	Dioxin TEQ	N/A	--	--	--	--
			Antimony	--	--	--	--	Antimony	Blood	8.05E-03	--	--	8.05E-03
			Arsenic	1.16E-06	--	9.78E-08	1.26E-06	Arsenic	Skin	3.02E-02	--	2.53E-03	3.27E-02
			Barium	--	--	--	--	Barium	Kidney	1.09E-01	--	--	1.09E-01
			Chromium	--	--	--	--	Chromium	None	3.99E-02	--	--	3.99E-02
			Lead	--	--	--	--	Lead	N/A	--	--	--	--
			Manganese	--	--	--	--	Manganese	CNS	1.72E-03	--	--	1.72E-03
			Nickel	--	--	--	--	Nickel	Body Weight	1.68E-02	--	--	1.68E-02
			Zinc	--	--	--	--	Zinc	Blood	1.86E-02	--	--	1.86E-02
			(Total)	7.79E-06	0.00E+00	2.61E-06	1.04E-05	(Total)		1.61E+00	0.00E+00	5.44E-01	2.15E+00
				Total Risk Across Soil				1.04E-05	Total Hazard Index Across Soil				
				Total Risk Across All Media and All Exposure Routes				1.04E-05	Total Hazard Index Across All Media and All Exposure Routes				

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.95E+00
Total Eye/Immune HI =	1.92E+00
Total Kidney HI =	1.09E-01
Total General HI =	3.04E-06
Total Blood HI =	2.66E-02
Total CNS HI =	1.72E-03
Total Body Weight HI =	1.68E-02

TABLE 10.1A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient					
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total	
Soil	Soil	On-Site Soil	Benzo(a)pyrene	3.82E-06	--	3.27E-06	7.09E-06	Aroclor, Total	Skin/Eyes/Immune	9.32E-01	--	8.61E-01	1.79E+00	
			Dibenz(a,h)anthracene	5.90E-07	--	5.06E-07	1.10E-06							
			Aroclor, Total	1.33E-05	--	1.23E-05	2.56E-05							
			Dioxin TEQ	3.12E-06	--	1.24E-06	4.35E-06							
			Arsenic	5.95E-06	--	1.18E-06	7.13E-06							
			(Total)	2.68E-05	0.00E+00	1.85E-05	4.53E-05		(Total)	9.32E-01	0.00E+00	8.61E-01	1.79E+00	
Total Risk Across Soil				4.53E-05		Total Hazard Index Across Soil				Total Hazard Index Across All Media and All Exposure Routes				
Total Risk Across All Media and All Exposure Routes				4.53E-05		Total Hazard Index Across All Media and All Exposure Routes				Total Skin HI =				
				4.53E-05						1.79E+00				
				4.53E-05		Total Eye/Immune HI =				1.79E+00				
				4.53E-05										

Existing dioxin CSF used for risk calculation.

TABLE 10.1B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.20E-06	--	1.14E-06	3.34E-06	(Total)	(Total)	0.00E+00	0.00E+00	0.00E+00	0.00E+00
			Aroclor, Total	7.66E-06	--	4.28E-06	1.19E-05						
			Dioxin TEQ	1.80E-06	--	4.30E-07	2.23E-06						
			Arsenic	3.43E-06	--	4.10E-07	3.84E-06						
			(Total)	1.51E-05	0.00E+00	6.26E-06	2.14E-05						
					Total Risk Across Soil	2.14E-05							
					Total Risk Across All Media and All Exposure Routes	2.14E-05							
										0.00E+00	0.00E+00	0.00E+00	0.00E+00
										0.00E+00	0.00E+00	0.00E+00	0.00E+00
										0.00E+00	0.00E+00	0.00E+00	0.00E+00
										0.00E+00	0.00E+00	0.00E+00	0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.1C RME
**SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE**
RAYMARK OU6 - LOCKWOOD AVENUE PROPERTY

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient											
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total							
Soil	Soil	On-Site Soil	Benzo(a)pyrene	5.13E-06	--	1.87E-06	7.00E-06	Aroclor, Total	Skin/Eyes/Immune	5.22E+00	--	2.04E+00	7.26E+00							
			Dibenz(a,h)anthracene	7.93E-07	--	2.89E-07	1.08E-06													
			Aroclor, Total	1.79E-05	--	7.01E-06	2.49E-05													
			Dieldrin	1.15E-06	--	--	1.15E-06													
			Dioxin TEQ	4.19E-06	--	7.04E-07	4.90E-06	Chromium (Total)	None	1.25E+00	--	--	1.25E+00							
			Arsenic	8.00E-06	--	6.72E-07	8.67E-06													
			(Total)	3.71E-05	0.00E+00	1.05E-05	4.77E-05													
				Total Risk Across Soil																
Total Risk Across All Media and All Exposure Routes				4.77E-05				Total Hazard Index Across Soil												
				4.77E-05				8.51E+00												
								Total Hazard Index Across All Media and All Exposure Routes												
								8.51E+00												

Existing dioxin CSF used for risk calculation.

TABLE 10.3 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 230 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene Benzo(a)pyrene Dibenzo(a,h)anthracene Aroclor, Total Dioxin TEQ Arsenic (Total)	6.27E-07 6.27E-06 6.54E-07 5.28E-05 1.42E-04 1.02E-06 2.04E-04	-- -- -- -- -- -- 0.00E+00	5.38E-07 5.38E-06 5.61E-07 4.88E-05 5.63E-05 2.02E-07 1.12E-04	1.16E-06 1.16E-05 1.22E-06 1.02E-04 1.99E-04 1.22E-06 3.15E-04	Benzo(a)anthracene Benzo(a)pyrene Dibenzo(a,h)anthracene Aroclor, Total Dioxin TEQ Arsenic (Total)	N/A N/A N/A Skin/Eyes/Immune N/A Skin 3.70E+00	-- -- -- 3.70E+00 -- -- 0.00E+00	-- -- -- 3.42E+00 -- 1.26E-03 3.42E+00	-- -- -- 7.12E+00 -- 7.60E-03 7.12E+00	-- -- -- -- -- 7.12E+00

Total Risk Across Soil

3.15E-04

Total Hazard Index Across Soil

7.12E+00

Total Risk Across All Media and All Exposure Routes

3.15E-04

Total Hazard Index Across All Media and All Exposure Routes

7.12E+00

Existing dioxin CSF used for risk calculation.

Total Skin HI =

7.12E+00

Total Eye/Immune HI =

7.12E+00

TABLE 10.4 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 250 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.79E-06	--	1.53E-06	3.32E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	2.14E-05	--	1.84E-05	3.98E-05	Benzo(a)pyrene	N/A	--	--	--	--
			Benzo(b)fluoranthene	1.39E-06	--	1.20E-06	2.59E-06	Benzo(b)fluoranthene	N/A	--	--	--	--
			Dibenzo(a,h)anthracene	6.61E-07	--	5.67E-07	1.23E-06	Dibenzo(a,h)anthracene	N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.02E-06	--	8.73E-07	1.89E-06	Indeno(1,2,3-cd)pyrene	N/A	--	--	--	--
			Aroclor, Total	8.81E-05	--	8.14E-05	1.69E-04	Aroclor, Total	Skin/Eyes/Immune	6.16E+00	--	5.70E+00	1.19E+01
			Dioxin TEQ	4.77E-05	--	1.89E-05	6.66E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.11E-06	--	8.14E-07	4.92E-06	Arsenic	Skin	2.56E-02	--	5.06E-03	3.06E-02
			(Total)	1.66E-04	0.00E+00	1.24E-04	2.90E-04	(Total)		6.19E+00	0.00E+00	5.70E+00	1.19E+01
Total Risk Across Soil				2.90E-04				Total Hazard Index Across Soil					1.19E+01
Total Risk Across All Media and All Exposure Routes				2.90E-04				Total Hazard Index Across All Media and All Exposure Routes					1.19E+01

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.19E+01
Total Eye/Immune HI =	1.19E+01

TABLE 10.5 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 280 FERRY BLVD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)anthracene	3.98E-06	--	3.41E-06	7.39E-06	Benzo(a)anthracene	N/A	--	--	--	--
			Benzo(a)pyrene	3.38E-05	--	2.90E-05	6.28E-05		N/A	--	--	--	--
			Benzo(b)fluoranthene	3.58E-06	--	3.07E-06	6.65E-06		N/A	--	--	--	--
			Dibenz(a,h)anthracene	7.76E-06	--	6.66E-06	1.44E-05		N/A	--	--	--	--
			Indeno(1,2,3-cd)pyrene	1.99E-06	--	1.71E-06	3.70E-06		N/A	--	--	--	--
			Aroclor, Total	6.00E-05	--	5.54E-05	1.15E-04		Aroclor, Total	4.20E+00	--	3.88E+00	8.08E+00
			Dioxin TEQ	8.18E-05	--	3.24E-05	1.14E-04		Dioxin TEQ	N/A	--	--	--
			Arsenic	3.19E-06	--	6.31E-07	3.82E-06		Arsenic	1.98E-02	--	3.93E-03	2.38E-02
			(Total)	1.96E-04	0.00E+00	1.32E-04	3.28E-04		(Total)	4.22E+00	0.00E+00	3.88E+00	8.10E+00
			Total Risk Across Soil	3.28E-04					Total Hazard Index Across Soil	8.10E+00			
			Total Risk Across All Media and All Exposure Routes	3.28E-04				Total Hazard Index Across All Media and All Exposure Routes					

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.10E+00
Total Eye/Immune HI =	8.08E+00

TABLE 10.6 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 300 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	9.23E-07	--	7.92E-07	1.71E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.36E-04	--	1.25E-04	2.61E-04	Aroclor, Total	Skin/Eyes/Immune	9.51E+00	--	8.78E+00	1.83E+01
			Dioxin TEQ	1.05E-05	--	4.17E-06	1.47E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	2.67E-06	--	5.28E-07	3.20E-06	Arsenic	Skin	1.66E-02	--	3.29E-03	1.99E-02
			(Total)	1.50E-04	0.00E+00	1.31E-04	2.81E-04	(Total)		9.52E+00	0.00E+00	8.79E+00	1.83E+01
Total Risk Across Soil				2.81E-04	Total Hazard Index Across Soil					1.83E+01			
Total Risk Across All Media and All Exposure Routes				2.81E-04	Total Hazard Index Across All Media and All Exposure Routes					1.83E+01			

Existing dioxin CSF used for risk calculation.

Total Skin HI =	1.83E+01
Total Eye/Immune HI =	1.83E+01

TABLE 10.7 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - LOT BEHIND 326 FERRY BOULEVARD

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	8.01E-07	--	6.87E-07	1.49E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	6.61E-05	--	6.11E-05	1.27E-04	Aroclor, Total	Skin/Eyes/Immune	4.63E+00	--	4.28E+00	8.90E+00
			Dioxin TEQ	2.82E-05	--	1.12E-05	3.93E-05	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	1.94E-06	--	3.84E-07	2.32E-06	Arsenic	Skin	1.21E-02	--	2.39E-03	1.44E-02
			(Total)	9.70E-05	0.00E+00	7.33E-05	1.70E-04	(Total)		4.64E+00	0.00E+00	4.28E+00	8.92E+00
Total Risk Across Soil				1.70E-04				Total Hazard Index Across Soil				8.92E+00	
Total Risk Across All Media and All Exposure Routes				1.70E-04				Total Hazard Index Across All Media and All Exposure Routes				8.92E+00	

Existing dioxin CSF used for risk calculation.

Total Skin HI =	8.92E+00
Total Eye/Immune HI =	8.90E+00

TABLE 10.8A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient									
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total					
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.58E-07	--	3.93E-07	1.15E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.45E+00	--	8.08E-01	2.25E+00					
			Benzo(a)pyrene	6.45E-06	--	3.35E-06	9.79E-06											
			Benzo(b)fluoranthene	7.01E-07	--	3.64E-07	1.07E-06											
			Dibenzo(a,h)anthracene	1.11E-06	--	5.75E-07	1.68E-06											
			Aroclor, Total (Conservative)	1.98E-05	--	1.11E-05	3.09E-05											
			Dioxin TEQ	1.22E-04	--	2.92E-05	1.51E-04											
			Arsenic	1.74E-06	--	2.09E-07	1.95E-06											
			(Total)	1.53E-04	0.00E+00	4.52E-05	1.98E-04											
Total Risk Across Soil				1.98E-04				Total Hazard Index Across Soil										
Total Risk Across All Media and All Exposure Routes				1.98E-04				Total Hazard Index Across All Media and All Exposure Routes										

Total Skin HI = 2.25E+00
Total Eye/Immune HI = 2.25E+00

TABLE 10.8B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT LOT AT HOUSATONIC AVENUE

Scenario Timeframe: Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total				
Soil	Soil	On-Site Soil	Benzo(a)anthracene	1.77E-06	--	6.44E-07	2.41E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.35E+01	--	5.29E+00	1.88E+01				
			Benzo(a)pyrene	1.50E-05	--	5.48E-06	2.05E-05										
			Benzo(b)fluoranthene	1.64E-06	--	5.96E-07	2.23E-06										
			Dibenzo(a,h)anthracene	2.59E-06	--	9.42E-07	3.53E-06										
			Indeno(1,2,3-cd)pyrene	7.92E-07	--	2.88E-07	1.08E-06										
			Aroclor, Total (Conservative)	4.63E-05	--	1.81E-05	6.44E-05										
			Dioxin TEQ	2.85E-04	--	4.78E-05	3.33E-04										
			Arsenic	4.07E-06	--	3.42E-07	4.41E-06										
			(Total)	3.57E-04	0.00E+00	7.43E-05	4.31E-04										
Total Risk Across Soil				4.31E-04				Total Hazard Index Across Soil					1.88E+01				
Total Risk Across All Media and All Exposure Routes				4.31E-04				Total Hazard Index Across All Media and All Exposure Routes					1.88E+01				

Existing dioxin CSF used for risk calculation.

TABLE 10.9 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 326 FERRY BOULEVARD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene (Total)	6.63E-07 6.63E-07	-- 0.00E+00	5.69E-07 5.69E-07	1.23E-06 1.23E-06	(Total)					
			Total Risk Across Soil				1.23E-06		Total Hazard Index Across Soil				0.00E+00
			Total Risk Across All Media and All Exposure Routes				1.23E-06		Total Hazard Index Across All Media and All Exposure Routes				0.00E+00

TABLE 10.10 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 576 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.14E-06	--	1.84E-06	3.98E-06	Benzo(a)pyrene	N/A	--	--	--	--
			Aroclor, Total	1.20E-04	--	1.11E-04	2.32E-04	Aroclor, Total	Skin/Eyes/Immune	8.42E+00	--	7.78E+00	1.62E+01
			Dieldrin	2.30E-06	--	--	2.30E-06	Dieldrin	Liver	8.05E-03	--	--	8.05E-03
			Dioxin TEQ	1.85E-04	--	7.32E-05	2.58E-04	Dioxin TEQ	N/A	--	--	--	--
			Arsenic	4.34E-06	--	8.59E-07	5.20E-06	Arsenic	Skin	2.70E-02	--	5.34E-03	3.23E-02
			(Total)	3.14E-04	0.00E+00	1.87E-04	5.01E-04	(Total)		8.46E+00	0.00E+00	7.79E+00	1.62E+01
Total Risk Across Soil				5.01E-04		Total Hazard Index Across Soil				1.62E+01			
Total Risk Across All Media and All Exposure Routes				5.01E-04		Total Hazard Index Across All Media and All Exposure Routes				1.62E+01			

Total Skin HI =	1.62E+01
Total Eye/Immune HI =	1.62E+01

Existing dioxin CSF used for risk calculation.

TABLE 10.11 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 -600 EAST BROADWAY

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total				
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.34E-06	--	1.15E-06	2.49E-06	Benzo(a)pyrene	N/A	--	--	--	--				
			Aroclor, Total	1.26E-05	--	1.17E-05	2.43E-05	Aroclor, Total	Skin/Eyes/Immune	8.84E-01	--	8.16E-01	1.70E+00				
			Dioxin TEQ	2.48E-06	--	9.81E-07	3.46E-06	Dioxin TEQ	N/A	--	--	--	--				
			Arsenic	6.81E-06	--	1.35E-06	8.16E-06	Arsenic	Skin	4.24E-02	--	8.39E-03	5.08E-02				
			(Total)	2.33E-05	0.00E+00	1.51E-05	3.84E-05	(Total)		9.26E-01	0.00E+00	8.25E-01	1.75E+00				
Total Risk Across Soil				3.84E-05	Total Hazard Index Across Soil					1.75E+00							
Total Risk Across All Media and All Exposure Routes				3.84E-05	Total Hazard Index Across All Media and All Exposure Routes					1.75E+00							
										Total Skin HI =	1.75E+00						
										Total Eye/Immune HI =	1.70E+00						

Existing dioxin CSF used for risk calculation.

TABLE 10.12 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - VACANT DOT LOT ABUTTING I-95

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total (Total)	1.45E-06	--	1.34E-06	2.78E-06	(Total)					
				1.45E-06	0.00E+00	1.34E-06	2.78E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
				Total Risk Across Soil					Total Hazard Index Across Soil				
				2.78E-06					0.00E+00				
				2.78E-06					0.00E+00				
				2.78E-06					0.00E+00				
				Total Risk Across All Media and All Exposure Routes					Total Hazard Index Across All Media and All Exposure Routes				
				2.78E-06					0.00E+00				

TABLE 10.13B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.65E-06	--	1.38E-06	4.03E-06						
			Aroclor, Total (Conservative)	2.10E-06	--	1.17E-06	3.27E-06						
			Arsenic	1.67E-06	--	1.99E-07	1.87E-06						
			(Total)	6.42E-06	0.00E+00	2.75E-06	9.17E-06	(Total)					
Total Risk Across All Media and All Exposure Routes				9.17E-06				Total Hazard Index Across All Media and All Exposure Routes					0.00E+00
				9.17E-06									0.00E+00

TABLE 10.13C RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - CT RIGHT-OF-WAY - RESIDENTIAL PORTION

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient																				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total																
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.57E-07	--	2.75E-07	1.03E-06	(Total)	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.43E+00	5.60E-01	1.99E+00																
			Benzo(a)pyrene	6.19E-06	--	2.25E-06	8.45E-06																						
			Dibenzo(a,h)anthracene	9.29E-07	--	3.38E-07	1.27E-06																						
			Aroclor, Total (Conservative)	4.90E-06	--	1.92E-06	6.82E-06																						
			Toxicity Equivalency	9.19E-07	--	1.54E-07	1.07E-06																						
			Arsenic	3.89E-06	--	3.27E-07	4.21E-06																						
			(Total)	1.76E-05	0.00E+00	5.27E-06	2.29E-05																						
Total Risk Across Soil				2.29E-05				Total Hazard Index Across Soil				1.99E+00																	
Total Risk Across All Media and All Exposure Routes				2.29E-05				Total Hazard Index Across All Media and All Exposure Routes				1.99E+00																	
Total Skin HI = 1.99E+00																													
Total Eye/Immune HI = 1.99E+00																													

Existing dioxin CSF used for risk calculation.

TABLE 10.14 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 304 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	On-Site Soil	Aroclor, Total	1.57E-04	--	1.45E-04	3.02E-04	Aroclor, Total Dioxin TEQ Arsenic (Total)	Skin/Eyes/Immune	1.10E+01	--	1.01E+01	2.11E+01			
			Dioxin TEQ	5.42E-06	--	2.15E-06	7.57E-06		N/A	--	--	--	--			
			Arsenic	3.71E-06	--	7.35E-07	4.45E-06		Skin	2.31E-02	--	4.57E-03	2.77E-02			
			(Total)	1.66E-04	0.00E+00	1.48E-04	3.14E-04		(Total)	1.10E+01	0.00E+00	1.01E+01	2.12E+01			
Total Risk Across Soil				3.14E-04		Total Hazard Index Across Soil				2.12E+01						
Total Risk Across All Media and All Exposure Routes				3.14E-04		Total Hazard Index Across All Media and All Exposure Routes				2.12E+01						

Existing dioxin CSF used for risk calculation.

Total Skin HI =	2.12E+01
Total Eye/Immune HI =	2.11E+01

TABLE 10.15 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - 340 EAST MAIN STREET

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total (Total)	6.04E-07 6.04E-07	-- 0.00E+00	5.58E-07 5.58E-07	1.16E-06 1.16E-06	(Total)					
									0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
			Total Risk Across All Media and All Exposure Routes				1.16E-06		Total Hazard Index Across Soil				0.00E+00
									Total Hazard Index Across All Media and All Exposure Routes				0.00E+00

TABLE 10.20A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.98E-06	--	1.03E-06	3.01E-06						
			Aroclor, Total (Conservative)	4.17E-06	--	2.33E-06	6.49E-06						
			Dioxin TEQ	1.77E-05	--	4.23E-06	2.19E-05						
			Arsenic	1.03E-06	--	1.24E-07	1.16E-06						
			(Total)	2.48E-05	0.00E+00	7.71E-06	3.26E-05	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Risk Across Soil				3.26E-05				Total Hazard Index Across Soil				0.00E+00	
Total Risk Across All Media and All Exposure Routes				3.26E-05				Total Hazard Index Across All Media and All Exposure Routes				0.00E+00	

Existing dioxin CSF used for risk calculation.

TABLE 10.20B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - BEACON POINT AREA

Scenario Timeframe: Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total			
Soil	Soil	On-Site Soil	Benzo(a)pyrene	4.63E-06	--	1.68E-06	6.31E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	2.84E+00	--	1.11E+00	3.95E+00			
			Dibenz(a,h)anthracene	8.23E-07	--	3.00E-07	1.12E-06									
			Aroclor, Total (Conservative)	9.72E-06	--	3.81E-06	1.35E-05									
			Dioxin TEQ	4.12E-05	--	6.92E-06	4.81E-05									
			Arsenic	2.41E-06	--	2.02E-07	2.61E-06									
			(Total)	5.88E-05	0.00E+00	1.29E-05	7.17E-05			2.84E+00	0.00E+00	1.11E+00	3.95E+00			
Total Risk Across All Media and All Exposure Routes				7.17E-05				Total Hazard Index Across Soil								
				7.17E-05				3.95E+00								
								Total Hazard Index Across All Media and All Exposure Routes								
				3.95E+00												

Existing dioxin CSF used for risk calculation.

TABLE 10.21 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - ONE BEACON POINT ROAD

Scenario Timeframe: Current/Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.79E-06	--	1.53E-06	3.32E-06						
			Aroclor, Total	8.39E-07	--	7.75E-07	1.61E-06						
			Dioxin TEQ	1.01E-06	--	4.00E-07	1.41E-06						
			(Total)	3.63E-06	0.00E+00	2.71E-06	6.34E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Risk Across Soil				6.34E-06				Total Hazard Index Across Soil				0.00E+00	
Total Risk Across All Media and All Exposure Routes				6.34E-06				Total Hazard Index Across All Media and All Exposure Routes				0.00E+00	

Existing dioxin CSF used for risk calculation.

TABLE 10.22 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - COMMERCIAL WORKER EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - AIRPORT PROPERTY NORTH OF MARINE BASIN

Scenario Timeframe: Future
Receptor Population: Commercial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient									
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total					
Soil	Soil	On-Site Soil	Benzo(a)anthracene	7.68E-07	--	6.59E-07	1.43E-06	(Total)	(Total)	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
			Benzo(a)pyrene	6.43E-06	--	5.52E-06	1.19E-05											
			Benzo(b)fluoranthene	5.54E-07	--	4.75E-07	1.03E-06											
			Benzo(k)fluoranthene	6.61E-07	--	5.67E-07	1.23E-06											
			Dibenzo(a,h)anthracene	2.14E-06	--	1.84E-06	3.98E-06											
			(Total)	1.06E-05	0.00E+00	9.05E-06	1.96E-05											
Total Risk Across All Media and All Exposure Routes				1.96E-05				Total Hazard Index Across All Media and All Exposure Routes										
				1.96E-05				0.00E+00										

Existing dioxin CSF used for risk calculation.

TABLE 10.23A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.12E-06	--	5.79E-07	1.70E-06						
			Aroclor, Total (Conservative)	6.76E-07	--	3.78E-07	1.05E-06						
			Dioxin TEQ	1.21E-06	--	2.89E-07	1.50E-06						
			(Total)	3.00E-06	0.00E+00	1.25E-06	4.25E-06	(Total)		0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Risk Across All Media and All Exposure Routes				4.25E-06				Total Hazard Index Across All Media and All Exposure Routes				0.00E+00	

Existing dioxin CSF used for risk calculation.

TABLE 10.23B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RECREATIONAL VISITOR EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - WOOSTER PARK

Scenario Timeframe: Current/Future
Receptor Population: Recreational Visitors
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Benzo(a)pyrene	2.61E-06	--	9.48E-07	3.55E-06						
			Aroclor, Total (Conservative)	1.58E-06	--	6.19E-07	2.20E-06						
			Dioxin TEQ	2.82E-06	--	4.73E-07	3.29E-06						
			(Total)	7.00E-06	0.00E+00	2.04E-06	9.04E-06						
Total Risk Across Soil				9.04E-06				Total Hazard Index Across Soil					0.00E+00
Total Risk Across All Media and All Exposure Routes				9.04E-06				Total Hazard Index Across All Media and All Exposure Routes					0.00E+00

Existing dioxin CSF used for risk calculation.

TABLE 10.24A RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Soil	On-Site Soil	Aroclor, Total (Conservative)	2.03E-06	--	1.13E-06	3.16E-06						
			(Total)	2.03E-06	0.00E+00	1.13E-06	3.16E-06	(Total)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Risk Across Soil				3.16E-06	Total Hazard Index Across Soil				0.00E+00	Total Hazard Index Across All Media and All Exposure Routes			
Total Risk Across All Media and All Exposure Routes				3.16E-06					0.00E+00				

TABLE 10.24B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT EXPOSURE TO SOIL
REASONABLE MAXIMUM EXPOSURE
RAYMARK OU6 - THIRD AVENUE PROPERTY

Scenario Timeframe: Current/Future
Receptor Population: Residents
Receptor Age: Child

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	On-Site Soil	Benzo(a)pyrene	1.34E-06	--	4.89E-07	1.83E-06	Aroclor, Total (Conservative)	Skin/Eyes/Immune	1.38E+00	--	5.41E-01	1.92E+00		
			Aroclor, Total (Conservative)	4.73E-06	--	1.86E-06	6.59E-06			1.38E+00	0.00E+00	5.41E-01	1.92E+00		
			Arsenic	1.16E-06	--	9.78E-08	1.26E-06			1.38E+00	0.00E+00	5.41E-01	1.92E+00		
			(Total)	7.24E-06	0.00E+00	2.44E-06	9.68E-06		(Total)	1.38E+00	0.00E+00	5.41E-01	1.92E+00		
Total Risk Across Soil				9.68E-06				Total Hazard Index Across Soil				1.92E+00			
Total Risk Across All Media and All Exposure Routes				9.68E-06				Total Hazard Index Across All Media and All Exposure Routes				1.92E+00			

Existing dioxin CSF used for risk calculation.